

conjunction	2100 Oct 11 06:55	18°♁03'39	0°36'43			2105 Jun 27 12:23	0°♁		
minimum elong	2100 Oct 11 07:59	18°♁05'24	0°36'43	asc. node		2105 Jul 23 07:34	18°♁06'57		
	2100 Oct 29 06:03	0°♁				2105 Aug 09 20:41	0°♁		
morning rise	2100 Nov 26 03:31	18°♁55'57				2105 Sep 26 05:04	0°♁		
	2100 Dec 12 02:52	0°♁				2105 Nov 22 03:47	0°♁		
desc. node	2100 Dec 17 21:05	4°♁01'50		retrograde		2106 Jan 13 13:13	13°♁14'36		
	2101 Jan 23 06:29	0°♁		opposition		2106 Feb 22 15:32	3°♁36'25	4°25'35	
	2101 Mar 04 23:56	0°♁		greatest brilliancy		2106 Feb 22 17:04	3°♁34'53	-1.2m	
	2101 Apr 13 19:44	0°♁		min. Earth dist.		2106 Feb 23 04:25	3°♁23'35	0.67788 AU	
	2101 May 23 13:29	0°♁				2106 Mar 03 22:24	30°♁		
	2101 Jul 03 14:14	0°♁		direct		2106 Apr 04 14:38	23°♁44'39		
	2101 Aug 17 21:01	0°♁				2106 May 09 12:11	0°♁		
asc. node	2101 Oct 18 10:24	27°♁20'31				2106 Jul 13 03:58	0°♁		
retrograde	2101 Nov 02 22:08	28°♁57'33		desc. node		2106 Aug 09 17:23	16°♁13'40		
min. Earth dist.	2101 Dec 04 15:43	22°♁05'58	0.54941 AU			2106 Aug 31 12:41	0°♁		
opposition	2101 Dec 11 15:41	19°♁24'13	2°29'40			2106 Oct 14 15:48	0°♁		
greatest brilliancy	2101 Dec 10 16:39	19°♁46'28	-1.8m			2106 Nov 24 14:27	0°♁		
direct	2102 Jan 16 11:13	11°♁22'04				2107 Jan 02 13:37	0°♁		
	2102 Mar 22 07:23	0°♁		evening set		2107 Jan 17 18:35	11°♁56'49		
	2102 May 18 15:15	0°♁				2107 Feb 09 14:45	0°♁		
	2102 Jul 08 19:46	0°♁				2107 Mar 19 17:26	0°♁		
	2102 Aug 26 02:05	0°♁							
evening set	2102 Oct 04 01:24	25°♁26'56		conjunction		2107 Mar 26 17:43	5°♁27'30	0°-45'-41	
	2102 Oct 10 20:11	0°♁		minimum elong		2107 Mar 26 20:59	5°♁33'51	0°45'40	
max. Earth dist.	2102 Oct 21 04:48	7°♁01'29	2.54534 AU			2107 Apr 27 18:55	0°♁		
desc. node	2102 Nov 04 19:42	17°♁05'21		max. Earth dist.		2107 May 17 13:15	14°♁43'59	2.41775 AU	
				morning rise		2107 Jun 02 06:19	26°♁12'11		
conjunction	2102 Nov 21 15:50	28°♁54'22	0°-10'-3			2107 Jun 07 12:49	0°♁		
minimum elong	2102 Nov 21 15:23	28°♁53'35	0°10'04	asc. node		2107 Jun 10 07:23	1°♁59'15		
behind sun begin	2102 Nov 20 22:29	28°♁23'41				2107 Jul 20 11:45	0°♁		
behind sun end	2102 Nov 22 08:17	29°♁23'31				2107 Sep 04 01:57	0°♁		
	2102 Nov 23 04:50	0°♁				2107 Oct 23 03:55	0°♁		
morning rise	2103 Jan 03 11:06	0°♁				2107 Dec 19 00:10	0°♁		
	2103 Jan 13 00:54	7°♁09'06		retrograde		2108 Feb 18 11:04	16°♁45'54		
	2103 Feb 12 02:52	0°♁		opposition		2108 Mar 28 09:11	7°♁50'01	3°10'52	
	2103 Mar 22 20:20	0°♁		greatest brilliancy		2108 Mar 29 01:21	7°♁34'19	-1.4m	
	2103 Apr 30 10:54	0°♁		min. Earth dist.		2108 Apr 01 18:43	6°♁07'33	0.64456 AU	
	2103 Jun 08 21:28	0°♁				2108 Apr 20 10:53	30°♁		
	2103 Jul 20 08:47	0°♁		direct		2108 May 08 20:07	27°♁48'29		
	2103 Sep 03 20:12	0°♁				2108 May 28 05:08	0°♁		
asc. node	2103 Sep 05 09:10	0°♁56'39		desc. node		2108 Jun 26 16:47	9°♁42'35		
	2103 Oct 31 04:14	0°♁				2108 Aug 05 13:56	0°♁		
retrograde	2103 Dec 11 01:32	9°♁06'56				2108 Sep 21 20:22	0°♁		
min. Earth dist.	2104 Jan 16 19:49	0°♁30'04	0.64504 AU			2108 Nov 02 18:08	0°♁		
	2104 Jan 18 01:55	30°♁				2108 Dec 12 01:27	0°♁		
greatest brilliancy	2104 Jan 19 10:44	29°♁27'07	-1.4m			2109 Jan 19 07:18	0°♁		
opposition	2104 Jan 20 04:14	29°♁09'35	4°20'54			2109 Feb 26 15:41	0°♁		
direct	2104 Feb 28 05:28	19°♁55'34		evening set		2109 Mar 29 01:24	23°♁15'24		
	2104 Apr 14 00:33	0°♁				2109 Apr 07 00:59	0°♁		
	2104 Jun 15 06:40	0°♁		asc. node		2109 Apr 27 05:38	14°♁54'56		
	2104 Aug 05 08:32	0°♁				2109 May 18 03:30	0°♁		
	2104 Sep 20 22:42	0°♁							
desc. node	2104 Sep 21 18:31	0°♁33'11		conjunction		2109 May 29 08:16	7°♁55'36	0°20'01	
	2104 Nov 03 07:30	0°♁		minimum elong		2109 May 29 07:04	7°♁53'30	0°20'00	
evening set	2104 Nov 17 13:12	10°♁16'13				2109 Jun 30 07:28	0°♁		
max. Earth dist.	2104 Dec 05 02:37	23°♁12'20	2.41880 AU	max. Earth dist.		2109 Jul 02 04:08	1°♁15'40	2.54956 AU	
	2104 Dec 14 04:26	0°♁		morning rise		2109 Jul 23 04:20	15°♁19'32		
						2109 Aug 14 13:50	0°♁		
conjunction	2105 Jan 13 15:05	23°♁15'30	0°-58'-17			2109 Sep 30 20:19	0°♁		
minimum elong	2105 Jan 13 13:09	23°♁11'45	0°58'17			2109 Nov 19 11:40	0°♁		
	2105 Jan 22 07:26	0°♁				2110 Jan 13 03:01	0°♁		
	2105 Mar 01 12:39	0°♁		retrograde		2110 Apr 01 14:51	24°♁46'28		
morning rise	2105 Mar 21 06:42	15°♁33'34		opposition		2110 May 07 22:16	17°♁03'03	0°18'19	
	2105 Apr 08 17:11	0°♁		greatest brilliancy		2110 May 07 13:00	17°♁11'29	-1.8m	
	2105 May 17 18:13	0°♁		desc. node		2110 May 14 15:35	14°♁35'28		

min. Earth dist.	2110 May 15 15:48	14°♌13'40	0.54855 AU		2115 Sep 21 09:13	0°♌	
direct	2110 Jun 16 18:58	7°♌41'09					
	2110 Aug 22 17:49	0°♌		conjunction	2115 Sep 27 18:16	4°♌07'18	0°49'54
	2110 Oct 08 22:36	0°♌		minimum elong	2115 Sep 27 19:23	4°♌09'07	0°49'54
	2110 Nov 19 02:33	0°♌			2115 Nov 06 04:23	0°♌	
	2110 Dec 28 09:18	0°♌		morning rise	2115 Nov 11 13:59	3°♌36'17	
	2111 Feb 05 13:47	0°♌			2115 Dec 20 10:14	0°♌	
asc. node	2111 Mar 15 04:18	28°♌06'11		desc. node	2116 Jan 04 12:41	10°♌29'15	
	2111 Mar 17 18:21	0°♌			2116 Feb 01 03:32	0°♌	
	2111 Apr 28 15:17	0°♌			2116 Mar 13 13:42	0°♌	
evening set	2111 May 24 18:50	18°♌04'08			2116 Apr 23 04:22	0°♌	
	2111 Jun 11 10:17	0°♌			2116 Jun 02 21:57	0°♌	
					2116 Jul 15 18:51	0°♌	
conjunction	2111 Jul 15 13:32	22°♌34'39	1°00'15		2116 Sep 06 07:30	0°♌	
minimum elong	2111 Jul 15 12:20	22°♌32'40	1°00'14	retrograde	2116 Oct 16 13:06	9°♌55'20	
	2111 Jul 26 23:25	0°♌		asc. node	2116 Nov 04 01:50	7°♌24'43	
max. Earth dist.	2111 Jul 30 16:03	2°♌23'31	2.63942 AU	min. Earth dist.	2116 Nov 15 01:53	3°♌54'14	0.49901 AU
morning rise	2111 Sep 01 02:48	23°♌12'23		opposition	2116 Nov 23 02:06	0°♌57'14	0°59'49
	2111 Sep 11 19:24	0°♌		greatest brilliancy	2116 Nov 22 14:16	1°♌08'09	-2.1m
	2111 Oct 29 11:37	0°♌			2116 Nov 25 16:48	30°♌	
	2111 Dec 16 23:26	0°♌		direct	2116 Dec 27 05:30	23°♌37'19	
	2112 Feb 05 06:08	0°♌			2117 Jan 30 08:22	0°♌	
desc. node	2112 Mar 31 14:12	29°♌24'25			2117 Apr 04 21:15	0°♌	
	2112 Apr 01 21:02	0°♌			2117 May 27 13:23	0°♌	
retrograde	2112 May 31 13:44	16°♌31'09			2117 Jul 16 08:02	0°♌	
opposition	2112 Jul 02 11:05	10°♌48'15	-4°-51'-19		2117 Sep 02 02:13	0°♌	
greatest brilliancy	2112 Jul 04 02:25	10°♌18'28	-2.6m	evening set	2117 Sep 18 15:51	10°♌43'14	
min. Earth dist.	2112 Jul 09 16:40	8°♌37'52	0.41835 AU	max. Earth dist.	2117 Oct 09 10:42	24°♌25'54	2.58628 AU
direct	2112 Aug 05 15:11	4°♌03'05			2117 Oct 17 18:13	0°♌	
	2112 Oct 15 01:41	0°♌					
	2112 Nov 29 15:06	0°♌		conjunction	2117 Nov 04 14:36	12°♌07'52	0°09'54
	2113 Jan 11 01:26	0°♌		minimum elong	2117 Nov 04 14:59	12°♌08'31	0°09'53
asc. node	2113 Jan 30 04:02	13°♌34'16		behind sun begin	2117 Nov 03 22:49	11°♌40'47	
	2113 Feb 22 12:14	0°♌		behind sun end	2117 Nov 05 07:10	12°♌36'16	
	2113 Apr 07 02:23	0°♌		desc. node	2117 Nov 21 11:01	23°♌48'12	
	2113 May 22 03:53	0°♌			2117 Nov 30 06:37	0°♌	
evening set	2113 Jul 06 09:54	29°♌17'59		morning rise	2117 Dec 23 14:46	16°♌41'21	
	2113 Jul 07 12:07	0°♌			2118 Jan 10 20:02	0°♌	
					2118 Feb 19 20:14	0°♌	
conjunction	2113 Aug 22 08:06	29°♌13'57	1°08'11		2118 Mar 30 21:45	0°♌	
minimum elong	2113 Aug 22 08:24	29°♌14'26	1°08'11		2118 May 08 19:41	0°♌	
max. Earth dist.	2113 Aug 22 07:35	29°♌13'07	2.67559 AU		2118 Jun 17 14:46	0°♌	
	2113 Aug 23 13:04	0°♌			2118 Jul 29 19:21	0°♌	
morning rise	2113 Oct 05 22:20	27°♌39'19			2118 Sep 15 17:36	0°♌	
	2113 Oct 09 14:15	0°♌		asc. node	2118 Sep 22 01:38	3°♌27'51	
	2113 Nov 25 03:26	0°♌		retrograde	2118 Nov 27 00:28	24°♌47'58	
	2114 Jan 10 00:32	0°♌		min. Earth dist.	2118 Dec 31 22:49	16°♌47'53	0.61458 AU
desc. node	2114 Feb 16 13:46	24°♌48'55		opposition	2119 Jan 05 19:10	14°♌52'10	3°53'58
	2114 Feb 24 09:29	0°♌		greatest brilliancy	2119 Jan 04 20:15	15°♌15'01	-1.5m
	2114 Apr 10 18:28	0°♌		direct	2119 Feb 12 17:46	6°♌01'08	
	2114 May 27 21:16	0°♌			2119 Apr 30 19:25	0°♌	
	2114 Jul 28 21:54	0°♌			2119 Jun 25 08:23	0°♌	
retrograde	2114 Aug 20 01:56	3°♌12'09			2119 Aug 13 23:40	0°♌	
	2114 Sep 11 09:06	30°♌			2119 Sep 29 03:32	0°♌	
min. Earth dist.	2114 Sep 16 01:01	28°♌44'48	0.38284 AU	desc. node	2119 Oct 09 10:17	6°♌57'29	
opposition	2114 Sep 20 16:32	27°♌26'19	-5°-20'-20	evening set	2119 Oct 30 11:48	21°♌31'41	
greatest brilliancy	2114 Sep 19 18:00	27°♌42'15	-2.8m		2119 Nov 11 11:05	0°♌	
direct	2114 Oct 20 09:26	22°♌19'59		max. Earth dist.	2119 Nov 13 19:26	1°♌40'36	2.47001 AU
	2114 Nov 25 19:35	0°♌					
asc. node	2114 Dec 18 03:06	9°♌53'21		conjunction	2119 Dec 22 09:59	29°♌58'26	0°-42'-8
	2115 Jan 23 20:12	0°♌		minimum elong	2119 Dec 22 08:03	29°♌54'50	0°42'08
	2115 Mar 14 06:01	0°♌			2119 Dec 22 10:49	0°♌	
	2115 May 01 09:17	0°♌			2120 Jan 30 17:57	0°♌	
	2115 Jun 18 10:45	0°♌		morning rise	2120 Feb 20 21:24	16°♌28'46	
	2115 Aug 05 07:08	0°♌			2120 Mar 09 03:00	0°♌	
evening set	2115 Aug 13 07:54	5°♌04'17		greatest brilliancy	2120 Apr 14 13:31	28°♌32'45	1.2m
max. Earth dist.	2115 Sep 14 17:15	25°♌42'31	2.65739 AU		2120 Apr 16 10:21	0°♌	

	2120 May 25 13:25	0°♄			2125 Apr 23 14:57	30°♁	
	2120 Jul 05 10:48	0°♁		min. Earth dist.	2125 Apr 27 14:24	28°♁30'11	0.59284 AU
asc. node	2120 Aug 09 00:12	23°♁53'09		direct	2125 May 31 20:17	21°♁12'25	
	2120 Aug 18 05:53	0°♁		desc. node	2125 May 31 06:34	21°♁12'33	
	2120 Oct 06 07:20	0°♁			2125 Jul 10 21:01	0°♁	
	2120 Dec 22 10:08	0°♁			2125 Sep 05 07:04	0°♁	
retrograde	2120 Dec 31 06:06	0°♁28'55			2125 Oct 19 05:27	0°♁	
	2121 Jan 08 19:40	30°♁			2125 Nov 28 08:07	0°♁	
min. Earth dist.	2121 Feb 08 11:49	21°♁03'56	0.67295 AU		2126 Jan 06 01:10	0°♁	
opposition	2121 Feb 09 11:32	20°♁40'13	4°33'30		2126 Feb 13 18:59	0°♁	
greatest brilliancy	2121 Feb 09 05:23	20°♁46'22	-1.2m		2126 Mar 25 13:39	0°♁	
direct	2121 Mar 21 20:07	11°♁00'03		asc. node	2126 Mar 31 21:40	4°♁40'15	
	2121 May 27 15:14	0°♁		evening set	2126 May 04 16:09	29°♁01'35	
	2121 Jul 22 14:28	0°♁			2126 May 06 01:11	0°♁	
desc. node	2121 Aug 26 09:41	21°♁28'41			2126 Jun 18 12:26	0°♁	
	2121 Sep 08 12:13	0°♁					
	2121 Oct 22 05:37	0°♁		conjunction	2126 Jun 28 14:36	6°♁46'40	0°48'47
	2121 Dec 02 02:26	0°♁		minimum elong	2126 Jun 28 12:58	6°♁43'56	0°48'46
evening set	2121 Dec 22 12:58	15°♁35'37		max. Earth dist.	2126 Jul 20 11:15	21°♁15'06	2.61020 AU
	2122 Jan 10 02:10	0°♁			2126 Aug 02 20:55	0°♁	
	2122 Feb 17 03:52	0°♁		morning rise	2126 Aug 17 09:32	9°♁23'14	
					2126 Sep 18 18:21	0°♁	
conjunction	2122 Feb 25 10:49	6°♁33'12	-1°-2'-6		2126 Nov 05 23:02	0°♁	
minimum elong	2122 Feb 25 12:38	6°♁36'48	1°02'06		2126 Dec 25 22:12	0°♁	
max. Earth dist.	2122 Mar 24 19:14	28°♁04'48	2.37284 AU		2127 Feb 18 14:12	0°♁	
	2122 Mar 27 06:12	0°♁		desc. node	2127 Apr 18 05:41	22°♁12'00	
	2122 May 05 06:15	0°♁		retrograde	2127 May 05 18:26	23°♁57'35	
morning rise	2122 May 07 05:46	1°♁29'39		opposition	2127 Jun 08 12:55	17°♁22'15	-2°-37'-15
	2122 Jun 14 22:29	0°♁		greatest brilliancy	2127 Jun 09 16:58	16°♁58'46	-2.3m
asc. node	2122 Jun 26 22:04	8°♁32'35		min. Earth dist.	2127 Jun 16 22:37	14°♁34'16	0.46831 AU
	2122 Jul 27 22:13	0°♁		direct	2127 Jul 15 13:33	9°♁17'47	
	2122 Sep 11 21:36	0°♁			2127 Sep 15 12:17	0°♁	
	2122 Nov 01 13:39	0°♁			2127 Nov 01 03:05	0°♁	
	2123 Jan 08 23:32	0°♁			2127 Dec 12 13:28	0°♁	
retrograde	2123 Feb 04 00:53	3°♁42'51			2128 Jan 22 02:18	0°♁	
	2123 Feb 28 03:54	30°♁		asc. node	2128 Feb 16 19:48	18°♁49'27	
opposition	2123 Mar 15 13:21	24°♁27'43	3°49'16		2128 Mar 03 07:58	0°♁	
greatest brilliancy	2123 Mar 16 01:14	24°♁16'02	-1.3m		2128 Apr 15 01:09	0°♁	
min. Earth dist.	2123 Mar 18 10:53	23°♁19'23	0.66559 AU		2128 May 29 11:47	0°♁	
direct	2123 Apr 26 00:10	14°♁26'08		evening set	2128 Jun 20 10:48	14°♁26'30	
	2123 Jun 22 23:37	0°♁			2128 Jul 14 10:27	0°♁	
desc. node	2123 Jul 14 08:06	10°♁35'01					
	2123 Aug 16 23:57	0°♁		conjunction	2128 Aug 07 19:36	15°♁38'54	1°08'31
	2123 Oct 01 12:44	0°♁		minimum elong	2128 Aug 07 19:20	15°♁38'29	1°08'30
	2123 Nov 11 22:01	0°♁		max. Earth dist.	2128 Aug 13 10:59	19°♁15'04	2.66784 AU
	2123 Dec 21 00:28	0°♁			2128 Aug 30 07:44	0°♁	
	2124 Jan 28 03:04	0°♁		morning rise	2128 Sep 22 04:05	14°♁31'35	
evening set	2124 Mar 01 23:53	26°♁37'34			2128 Oct 16 12:27	0°♁	
	2124 Mar 06 07:50	0°♁			2128 Dec 02 14:51	0°♁	
	2124 Apr 14 12:34	0°♁			2129 Jan 18 15:49	0°♁	
				desc. node	2129 Mar 05 04:40	28°♁44'17	
conjunction	2124 May 06 15:22	16°♁24'10	0°-4'-44		2129 Mar 07 05:20	0°♁	
minimum elong	2124 May 06 15:44	16°♁24'50	0°04'45		2129 Apr 26 04:54	0°♁	
behind sun begin	2124 May 05 14:23	15°♁38'24			2129 Jul 05 03:31	0°♁	
behind sun end	2124 May 07 17:06	17°♁11'13		retrograde	2129 Jul 20 03:44	1°♁25'43	
asc. node	2124 May 13 22:07	21°♁42'43			2129 Aug 04 07:50	30°♁	
	2124 May 25 10:02	0°♁		opposition	2129 Aug 19 07:36	26°♁27'27	-6°-49'-55
max. Earth dist.	2124 Jun 18 02:22	16°♁42'42	2.50101 AU	greatest brilliancy	2129 Aug 19 14:44	26°♁22'42	-2.9m
morning rise	2124 Jul 05 01:11	28°♁22'58		min. Earth dist.	2129 Aug 19 21:42	26°♁18'05	0.37328 AU
	2124 Jul 07 10:11	0°♁		direct	2129 Sep 18 05:25	21°♁27'51	
	2124 Aug 21 16:42	0°♁			2129 Oct 26 01:50	0°♁	
	2124 Oct 08 09:36	0°♁			2129 Dec 20 22:20	0°♁	
	2124 Nov 28 15:05	0°♁		asc. node	2130 Jan 03 18:43	8°♁39'24	
	2125 Jan 29 22:03	0°♁			2130 Feb 05 21:56	0°♁	
retrograde	2125 Mar 14 11:50	9°♁15'16			2130 Mar 23 22:31	0°♁	
opposition	2125 Apr 21 00:46	0°♁58'45	1°39'36		2130 May 09 11:31	0°♁	
greatest brilliancy	2125 Apr 21 15:21	0°♁45'01	-1.6m		2130 Jun 25 16:43	0°♁	

evening set	2130 Jul 29 21:43	21°♁37'06			2135 Jun 03 14:56	0°♄		
	2130 Aug 12 03:30	0°♃			2135 Jul 14 18:28	0°♁		
max. Earth dist.	2130 Sep 05 10:53	15°♃27'00	2.67099 AU	asc. node	2135 Aug 26 15:59	28°♁54'53		
					2135 Aug 28 08:53	0°♄		
conjunction	2130 Sep 13 13:48	20°♃38'21	0°59'48		2135 Oct 19 22:51	0°♁		
minimum elong	2130 Sep 13 14:45	20°♃39'52	0°59'48	retrograde	2135 Dec 18 21:46	17°♁23'09		
	2130 Sep 28 03:50	0°♄		min. Earth dist.	2136 Jan 25 14:19	8°♁27'44	0.65780 AU	
morning rise	2130 Oct 27 22:20	19°♄19'15		opposition	2136 Jan 28 02:27	7°♁27'28	4°29'35	
	2130 Nov 13 04:06	0°♃		greatest brilliancy	2136 Jan 27 12:45	7°♁41'12	-1.3m	
	2130 Dec 27 21:55	0°♄			2136 Feb 19 07:17	30°♃		
desc. node	2131 Jan 21 04:15	16°♄38'19		direct	2136 Mar 07 15:55	28°♄02'50		
	2131 Feb 09 09:30	0°♄			2136 Mar 26 07:28	0°♁		
	2131 Mar 23 19:54	0°♃			2136 Jun 08 15:09	0°♃		
	2131 May 04 17:34	0°♂			2136 Jul 31 01:26	0°♄		
	2131 Jun 16 11:00	0°♃		desc. node	2136 Sep 12 00:39	27°♄18'55		
	2131 Aug 03 14:37	0°♄			2136 Sep 16 01:52	0°♃		
retrograde	2131 Sep 27 15:44	17°♄27'59			2136 Oct 29 13:54	0°♄		
min. Earth dist.	2131 Oct 25 05:06	12°♄17'38	0.44644 AU	evening set	2136 Nov 29 09:11	22°♄27'18		
opposition	2131 Nov 02 09:15	9°♄30'19	-1°-8'-5		2136 Dec 09 11:07	0°♄		
greatest brilliancy	2131 Nov 01 21:01	9°♄40'45	-2.4m	max. Earth dist.	2136 Dec 23 20:45	10°♄55'40	2.39274 AU	
asc. node	2131 Nov 21 18:30	4°♄09'29			2137 Jan 17 13:15	0°♃		
direct	2131 Dec 04 13:46	3°♄02'35						
	2132 Feb 22 01:49	0°♁		conjunction	2137 Jan 28 04:32	8°♃19'10	-1°-3'-35	
	2132 Apr 15 12:41	0°♄		minimum elong	2137 Jan 28 03:28	8°♃17'05	1°03'36	
	2132 Jun 04 17:45	0°♁			2137 Feb 24 17:11	0°♂		
	2132 Jul 23 13:40	0°♃			2137 Apr 03 20:37	0°♃		
evening set	2132 Sep 03 21:35	26°♃43'38		morning rise	2137 Apr 07 13:12	2°♃52'38		
	2132 Sep 08 23:49	0°♄			2137 May 12 20:38	0°♄		
max. Earth dist.	2132 Sep 28 21:56	12°♄55'59	2.62028 AU		2137 Jun 22 12:43	0°♁		
				asc. node	2137 Jul 13 15:48	14°♁56'46		
conjunction	2132 Oct 19 20:05	26°♄46'08	0°27'40		2137 Aug 04 15:44	0°♄		
minimum elong	2132 Oct 19 20:58	26°♄47'38	0°27'40		2137 Sep 20 07:04	0°♁		
	2132 Oct 24 15:58	0°♃			2137 Nov 12 20:59	0°♃		
morning rise	2132 Dec 05 13:49	28°♃42'44		retrograde	2138 Jan 21 07:03	20°♃58'54		
	2132 Dec 07 09:57	0°♄		opposition	2138 Mar 02 05:11	11°♃28'00	4°15'30	
desc. node	2132 Dec 08 03:30	0°♄30'46		greatest brilliancy	2138 Mar 02 10:45	11°♃22'29	-1.2m	
	2133 Jan 18 08:16	0°♄		min. Earth dist.	2138 Mar 03 14:19	10°♃55'07	0.67632 AU	
	2133 Feb 27 18:59	0°♃		direct	2138 Apr 12 09:30	1°♃31'28		
	2133 Apr 08 07:00	0°♂			2138 Jul 06 05:12	0°♄		
	2133 May 17 15:41	0°♃		desc. node	2138 Jul 30 23:47	13°♄57'35		
	2133 Jun 27 01:38	0°♄			2138 Aug 26 01:11	0°♃		
	2133 Aug 09 16:39	0°♁			2138 Oct 09 14:53	0°♄		
	2133 Oct 03 11:33	0°♄			2138 Nov 19 17:05	0°♄		
asc. node	2133 Oct 08 16:49	2°♄03'21			2138 Dec 28 17:19	0°♃		
retrograde	2133 Nov 12 01:55	9°♄09'48		evening set	2139 Feb 02 13:11	28°♃14'25		
min. Earth dist.	2133 Dec 15 00:10	1°♄51'45	0.57508 AU		2139 Feb 04 18:34	0°♂		
	2133 Dec 19 18:27	30°♃			2139 Mar 14 21:25	0°♃		
greatest brilliancy	2133 Dec 20 05:36	29°♁49'02	-1.7m					
opposition	2133 Dec 21 06:25	29°♁24'40	3°07'47	conjunction	2139 Apr 11 16:01	21°♃25'58	0°-31'-41	
direct	2134 Jan 26 21:32	21°♁02'48		minimum elong	2139 Apr 11 18:36	21°♃30'55	0°31'39	
	2134 Mar 10 01:38	0°♄			2139 Apr 22 23:20	0°♄		
	2134 May 12 04:36	0°♁		asc. node	2139 May 31 14:29	28°♄28'19		
	2134 Jul 03 14:13	0°♃		max. Earth dist.	2139 May 31 14:43	28°♄28'45	2.44786 AU	
	2134 Aug 21 07:14	0°♄			2139 Jun 02 17:28	0°♁		
	2134 Oct 06 04:59	0°♃		morning rise	2139 Jun 15 08:52	9°♁00'16		
evening set	2134 Oct 13 05:52	4°♃45'17			2139 Jul 15 15:37	0°♄		
desc. node	2134 Oct 26 01:52	13°♃32'26			2139 Aug 30 01:02	0°♁		
max. Earth dist.	2134 Oct 28 21:57	15°♃30'06	2.52015 AU		2139 Oct 17 10:53	0°♃		
	2134 Nov 18 13:47	0°♄			2139 Dec 10 09:57	0°♄		
				retrograde	2140 Feb 27 04:43	25°♄00'04		
conjunction	2134 Dec 02 02:10	9°♄41'17	0°-21'-57	opposition	2140 Apr 05 16:16	16°♄16'49	2°41'46	
minimum elong	2134 Dec 02 01:09	9°♄39'27	0°21'57	greatest brilliancy	2140 Apr 06 09:13	16°♄00'29	-1.4m	
	2134 Dec 29 18:08	0°♄		min. Earth dist.	2140 Apr 10 20:53	14°♄16'48	0.62881 AU	
morning rise	2135 Jan 25 22:10	20°♄30'36		direct	2140 May 16 23:46	6°♄18'11		
	2135 Feb 07 07:03	0°♃		desc. node	2140 Jun 16 22:09	11°♄37'36		
	2135 Mar 17 21:13	0°♂			2140 Jul 28 15:34	0°♃		
	2135 Apr 25 08:26	0°♃			2140 Sep 15 20:53	0°♄		

	2140 Oct 28 08:19	0°☾		conjunction	2145 Aug 30 11:16	7°♃20'10	1°06'10
	2140 Dec 06 21:27	0°♁		minimum elong	2145 Aug 30 11:51	7°♃21'06	1°06'10
	2141 Jan 14 06:20	0°♃			2145 Oct 04 22:55	0°♁	
	2141 Feb 21 16:57	0°♃		morning rise	2145 Oct 13 20:06	5°♁42'35	
evening set	2141 Apr 02 04:24	0°♃			2145 Nov 20 06:59	0°♃	
asc. node	2141 Apr 12 01:52	7°♃20'15		desc. node	2146 Jan 04 17:19	0°♃	
	2141 Apr 17 13:23	11°♃21'57			2146 Feb 06 20:13	22°♃14'38	
	2141 May 13 08:45	0°♃			2146 Feb 18 07:06	0°☾	
conjunction	2141 Jun 09 22:28	19°♃18'13	0°32'03		2146 Apr 03 07:47	0°♁	
minimum elong	2141 Jun 09 20:52	19°♃15'28	0°32'03		2146 May 17 16:39	0°♃	
	2141 Jun 25 14:07	0°☾		retrograde	2146 Jul 04 22:16	0°♃	
max. Earth dist.	2141 Jul 09 06:19	9°☾12'21	2.57324 AU	min. Earth dist.	2146 Sep 04 06:02	20°♃38'40	
morning rise	2141 Aug 01 17:10	24°☾42'36		greatest brilliancy	2146 Sep 30 19:52	16°♃05'47	0.40020 AU
	2141 Aug 09 19:55	0°♁		opposition	2146 Oct 06 07:17	14°♃26'04	-2.7m
	2141 Sep 25 21:36	0°♃		direct	2146 Oct 07 09:52	14°♃05'46	-3°-50'-2
	2141 Nov 13 20:54	0°♁		asc. node	2146 Nov 06 19:37	8°♃34'24	
	2142 Jan 05 05:15	0°♃			2146 Dec 08 09:43	14°♃24'30	
	2142 Mar 13 10:20	0°♃			2147 Jan 13 00:38	0°♃	
retrograde	2142 Apr 13 02:51	4°♃57'19			2147 Mar 07 06:31	0°♃	
desc. node	2142 May 04 20:44	1°♃59'01			2147 Apr 25 17:53	0°☾	
	2142 May 11 13:19	30°♃			2147 Jun 13 10:20	0°♁	
opposition	2142 May 18 13:42	27°♃35'50	0°-39'-4	evening set	2147 Jul 31 14:10	0°♃	
greatest brilliancy	2142 May 18 21:12	27°♃29'10	-2.0m		2147 Aug 21 12:55	13°♃13'05	
min. Earth dist.	2142 May 26 17:32	24°♃41'25	0.52089 AU	max. Earth dist.	2147 Sep 16 18:58	0°♁	
direct	2142 Jun 26 14:42	18°♃35'20			2147 Sep 20 03:59	2°♁10'43	2.64644 AU
	2142 Aug 10 10:14	0°♃		conjunction	2147 Oct 06 00:17	12°♁28'34	0°42'37
	2142 Oct 01 11:10	0°☾		minimum elong	2147 Oct 06 01:24	12°♁30'23	0°42'36
	2142 Nov 12 19:07	0°♁			2147 Nov 01 13:00	0°♃	
	2142 Dec 22 14:54	0°♃		morning rise	2147 Nov 20 07:40	12°♃38'25	
asc. node	2143 Jan 31 03:53	0°♃			2147 Dec 15 14:40	0°♃	
	2143 Mar 05 12:47	24°♃48'44		desc. node	2147 Dec 25 18:38	7°♃05'23	
	2143 Mar 12 15:14	0°♃			2148 Jan 27 00:48	0°☾	
	2143 Apr 23 17:23	0°♃			2148 Mar 08 01:56	0°♁	
evening set	2143 Jun 04 06:03	28°♃22'16			2148 Apr 17 05:29	0°♃	
	2143 Jun 06 16:28	0°☾			2148 May 27 07:56	0°♃	
	2143 Jul 22 07:43	0°♁			2148 Jul 07 22:32	0°♃	
conjunction	2143 Jul 24 15:02	1°♁29'30	1°04'35	asc. node	2148 Aug 24 00:32	0°♃	
minimum elong	2143 Jul 24 14:10	1°♁28'06	1°04'34	retrograde	2148 Oct 25 10:08	21°♃30'28	
max. Earth dist.	2143 Aug 05 06:24	8°♁59'50	2.65184 AU	min. Earth dist.	2148 Oct 26 17:17	21°♃31'12	
	2143 Sep 07 03:19	0°♃		opposition	2148 Nov 26 10:56	15°♃01'26	0.52735 AU
morning rise	2143 Sep 09 05:40	1°♃20'00		greatest brilliancy	2148 Dec 03 22:46	12°♃11'04	1°55'52
	2143 Oct 24 14:20	0°♁		direct	2148 Dec 03 02:51	12°♃30'01	-2.0m
	2143 Dec 11 11:41	0°♃			2149 Jan 08 00:51	4°♃26'34	
	2144 Jan 29 06:49	0°♃			2149 Mar 27 18:21	0°☾	
desc. node	2144 Mar 20 23:46	0°☾			2149 May 21 18:14	0°♁	
	2144 Mar 21 20:58	0°☾28'53			2149 Jul 11 07:38	0°♃	
	2144 May 31 14:39	0°♁		evening set	2149 Aug 28 09:28	0°♁	
retrograde	2144 Jun 17 20:44	1°♁44'54			2149 Sep 27 08:19	19°♁27'48	
	2144 Jul 04 15:41	30°♃		max. Earth dist.	2149 Oct 13 03:39	0°♃	
opposition	2144 Jul 18 15:03	26°☾28'58	-5°-59'-59	desc. node	2149 Oct 16 01:24	1°♃57'29	2.56452 AU
greatest brilliancy	2144 Jul 20 03:05	26°☾03'27	-2.7m		2149 Nov 11 17:16	20°♃14'10	
min. Earth dist.	2144 Jul 24 04:43	24°☾54'33	0.39537 AU	conjunction	2149 Nov 14 02:43	21°♃54'17	0°-1'-26
direct	2144 Aug 20 01:53	20°☾31'19		minimum elong	2149 Nov 14 02:37	21°♃54'06	0°01'26
	2144 Sep 28 10:17	0°♁		behind sun begin	2149 Nov 13 06:04	21°♃18'17	
	2144 Nov 20 11:17	0°♃		behind sun end	2149 Nov 14 23:09	22°♃29'57	
asc. node	2145 Jan 03 22:52	0°♃			2149 Nov 25 15:07	0°♃	
	2145 Jan 20 10:44	11°♃23'00		morning rise	2150 Jan 03 19:35	28°♃20'41	
	2145 Feb 16 11:05	0°♃			2150 Jan 06 01:19	0°☾	
	2145 Apr 01 16:46	0°♃			2150 Feb 14 21:25	0°♁	
	2145 May 17 04:24	0°☾			2150 Mar 25 18:29	0°♃	
	2145 Jul 02 18:39	0°♁			2150 May 03 11:47	0°♃	
evening set	2145 Jul 15 03:08	7°♁52'28			2150 Jun 12 00:55	0°♃	
	2145 Aug 18 22:24	0°♃			2150 Jul 23 16:46	0°♃	
max. Earth dist.	2145 Aug 27 12:03	5°♃26'54	2.67634 AU		2150 Sep 07 21:00	0°☾	
				asc. node	2150 Sep 12 09:12	2°☾40'10	

	2150 Nov 10 20:18	0°♈			2155 Nov 06 18:09	0°♁		
retrograde	2150 Dec 05 04:32	3°♈34'31			2155 Dec 15 23:53	0°♁		
	2150 Dec 27 21:39	30°♈			2156 Jan 23 04:15	0°♁		
min. Earth dist.	2151 Jan 10 03:20	25°♈13'16	0.63256 AU		2156 Mar 01 10:26	0°♁		
greatest brilliancy	2151 Jan 13 07:22	23°♈57'14	-1.4m	evening set	2156 Mar 17 13:59	12°♁27'51		
opposition	2151 Jan 14 03:39	23°♈36'56	4°11'53		2156 Apr 09 16:50	0°♁		
direct	2151 Feb 21 17:01	14°♈32'35		asc. node	2156 May 04 05:45	18°♁08'42		
	2151 Apr 21 14:44	0°♈						
	2151 Jun 19 11:07	0°♁		conjunction	2156 May 19 21:05	29°♁26'31	0°10'00	
	2151 Aug 08 22:32	0°♁		minimum elong	2156 May 19 20:25	29°♁25'19	0°09'59	
	2151 Sep 24 09:29	0°♁		behind sun begin	2156 May 19 00:38	28°♁49'55		
desc. node	2151 Sep 29 16:12	3°♁32'48		behind sun end	2156 May 20 16:12	0°♁00'40		
	2151 Nov 06 19:12	0°♁			2156 May 20 15:49	0°♁		
evening set	2151 Nov 10 00:41	2°♁18'26		max. Earth dist.	2156 Jun 26 12:06	25°♁46'39	2.52868 AU	
max. Earth dist.	2151 Nov 25 06:04	13°♁19'16	2.44165 AU		2156 Jul 02 16:39	0°♁		
	2151 Dec 17 18:23	0°♁		morning rise	2156 Jul 15 14:46	8°♁43'22		
					2156 Aug 16 21:30	0°♁		
conjunction	2152 Jan 04 02:26	13°♁07'37	0°-52'-9		2156 Oct 03 06:45	0°♁		
minimum elong	2152 Jan 04 00:20	13°♁03'36	0°52'08		2156 Nov 22 10:43	0°♁		
	2152 Jan 25 23:55	0°♁			2157 Jan 18 07:00	0°♁		
	2152 Mar 04 06:54	0°♁		retrograde	2157 Mar 24 12:57	18°♁21'31		
morning rise	2152 Mar 08 01:22	2°♁58'06		opposition	2157 Apr 30 10:00	10°♁22'20	0°55'07	
	2152 Apr 11 12:11	0°♁		greatest brilliancy	2157 Apr 30 19:35	10°♁13'25	-1.7m	
	2152 May 20 13:12	0°♁		min. Earth dist.	2157 May 07 15:29	7°♁41'13	0.56936 AU	
	2152 Jun 30 07:09	0°♁		desc. node	2157 May 21 13:04	3°♁16'06		
asc. node	2152 Jul 30 07:06	20°♁57'58		direct	2157 Jun 09 17:52	0°♁47'28		
	2152 Aug 12 17:32	0°♁			2157 Aug 28 11:02	0°♁		
	2152 Sep 29 13:25	0°♁			2157 Oct 12 23:59	0°♁		
	2152 Nov 29 00:07	0°♁			2157 Nov 22 15:59	0°♁		
retrograde	2153 Jan 07 21:58	8°♁17'46			2157 Dec 31 15:56	0°♁		
	2153 Feb 13 11:38	30°♁			2158 Feb 08 14:30	0°♁		
opposition	2153 Feb 17 01:37	28°♁34'31	4°30'16		2158 Mar 20 13:23	0°♁		
greatest brilliancy	2153 Feb 16 23:48	28°♁36'20	-1.2m	asc. node	2158 Mar 22 03:53	1°♁10'51		
min. Earth dist.	2153 Feb 16 22:18	28°♁37'50	0.67691 AU		2158 May 01 04:39	0°♁		
direct	2153 Mar 29 18:16	18°♁47'27		evening set	2158 May 16 09:46	10°♁37'27		
	2153 May 17 11:17	0°♁			2158 Jun 13 18:51	0°♁		
	2153 Jul 16 13:28	0°♁						
desc. node	2153 Aug 16 14:56	18°♁40'41		conjunction	2158 Jul 08 11:32	16°♁26'54	0°56'03	
	2153 Sep 03 07:45	0°♁		minimum elong	2158 Jul 08 10:06	16°♁24'33	0°56'03	
	2153 Oct 17 08:08	0°♁		max. Earth dist.	2158 Jul 26 10:38	28°♁12'36	2.62749 AU	
	2153 Nov 27 07:07	0°♁			2158 Jul 29 04:43	0°♁		
evening set	2154 Jan 05 23:36	0°♁31'46		morning rise	2158 Aug 25 22:11	17°♁51'18		
	2154 Jan 05 07:21	0°♁			2158 Sep 14 00:31	0°♁		
	2154 Feb 12 08:54	0°♁			2158 Oct 31 21:05	0°♁		
					2158 Dec 19 21:58	0°♁		
conjunction	2154 Mar 13 23:31	23°♁21'37	0°-54'-24		2159 Feb 09 16:03	0°♁		
minimum elong	2154 Mar 14 02:34	23°♁27'35	0°54'24	desc. node	2159 Apr 08 11:50	27°♁46'30		
	2154 Mar 22 10:59	0°♁			2159 Apr 14 18:08	0°♁		
	2154 Apr 30 10:57	0°♁		retrograde	2159 May 20 05:49	6°♁37'39		
max. Earth dist.	2154 May 01 22:21	1°♁06'48	2.39468 AU	opposition	2159 Jun 22 00:28	0°♁30'58	-3°-52'-53	
morning rise	2154 May 22 09:21	16°♁22'04			2159 Jun 23 15:24	30°♁		
	2154 Jun 10 02:40	0°♁		greatest brilliancy	2159 Jun 23 13:12	0°♁01'46	-2.4m	
asc. node	2154 Jun 17 06:51	5°♁08'22		min. Earth dist.	2159 Jun 30 01:09	27°♁58'59	0.43992 AU	
	2154 Jul 23 00:08	0°♁		direct	2159 Jul 27 13:31	23°♁08'04		
	2154 Sep 06 15:52	0°♁			2159 Aug 29 13:52	0°♁		
	2154 Oct 26 05:22	0°♁			2159 Oct 23 08:12	0°♁		
	2154 Dec 24 20:59	0°♁			2159 Dec 05 13:49	0°♁		
retrograde	2155 Feb 12 05:10	11°♁35'50			2160 Jan 15 23:36	0°♁		
opposition	2155 Mar 23 09:49	2°♁30'55	3°28'17	asc. node	2160 Feb 07 03:26	15°♁59'38		
greatest brilliancy	2155 Mar 24 00:22	2°♁16'42	-1.3m		2160 Feb 26 18:45	0°♁		
min. Earth dist.	2155 Mar 27 03:22	1°♁03'23	0.65516 AU		2160 Apr 09 21:29	0°♁		
	2155 Mar 29 21:00	30°♁			2160 May 24 14:49	0°♁		
direct	2155 May 03 20:55	22°♁28'31		evening set	2160 Jun 29 17:19	23°♁32'37		
	2155 Jun 10 20:14	0°♁			2160 Jul 09 17:44	0°♁		
desc. node	2155 Jul 04 14:06	9°♁59'56						
	2155 Aug 10 12:43	0°♁		conjunction	2160 Aug 16 05:16	23°♁58'06	1°08'48	
	2155 Sep 26 01:08	0°♁		minimum elong	2160 Aug 16 05:21	23°♁58'14	1°08'48	

max. Earth dist.	2160 Aug 18 17:47	25°♏34'25	2.67322 AU	retrograde	2165 Nov 20 18:52	18°♌44'18	
	2160 Aug 25 16:40	0°♎		min. Earth dist.	2165 Dec 24 19:55	11°♌02'06	0.59792 AU
morning rise	2160 Sep 30 01:50	22°♎31'20		greatest brilliancy	2165 Dec 29 07:00	9°♌16'07	-1.6m
	2160 Oct 11 19:14	0°♌		opposition	2165 Dec 30 07:32	8°♌51'47	3°37'29
	2160 Nov 27 14:05	0°♍		direct	2166 Feb 05 16:04	0°♌13'00	
	2161 Jan 12 22:40	0°♎			2166 May 05 02:03	0°♏	
desc. node	2161 Feb 23 11:16	26°♎58'09			2166 Jun 28 03:50	0°♎	
	2161 Feb 28 03:32	0°♌			2166 Aug 16 10:05	0°♌	
	2161 Apr 16 01:25	0°♍			2166 Oct 01 12:25	0°♍	
	2161 Jun 06 02:27	0°♎		desc. node	2166 Oct 16 07:41	10°♍02'14	
retrograde	2161 Aug 07 02:44	19°♎47'10		evening set	2166 Oct 22 21:01	14°♍32'54	
min. Earth dist.	2161 Sep 04 06:42	15°♎10'51	0.37458 AU	max. Earth dist.	2166 Nov 06 12:55	24°♍46'53	2.49284 AU
opposition	2161 Sep 06 18:11	14°♎30'51	-6°-14'-54		2166 Nov 13 21:49	0°♎	
greatest brilliancy	2161 Sep 06 06:22	14°♎38'48	-2.9m				
direct	2161 Oct 06 04:43	9°♎35'36		conjunction	2166 Dec 13 07:19	21°♎18'07	0°-33'-46
	2161 Dec 08 20:42	0°♏		minimum elong	2166 Dec 13 05:45	21°♎15'12	0°33'47
asc. node	2161 Dec 25 03:00	8°♏56'35			2166 Dec 25 00:31	0°♌	
	2162 Jan 29 05:47	0°♎			2167 Feb 02 10:50	0°♍	
	2162 Mar 17 20:35	0°♏		morning rise	2167 Feb 09 02:30	5°♍09'01	
	2162 May 04 04:19	0°♌			2167 Mar 12 22:24	0°♎	
	2162 Jun 20 19:38	0°♏			2167 Apr 20 07:06	0°♏	
evening set	2162 Aug 07 04:55	29°♏49'28			2167 May 29 10:47	0°♎	
	2162 Aug 07 11:35	0°♎			2167 Jul 09 09:10	0°♏	
max. Earth dist.	2162 Sep 10 19:03	21°♎48'32	2.66456 AU	asc. node	2167 Aug 17 00:07	26°♏29'17	
					2167 Aug 22 09:04	0°♌	
conjunction	2162 Sep 21 16:27	28°♎47'58	0°54'26		2167 Oct 11 10:19	0°♏	
minimum elong	2162 Sep 21 17:32	28°♎49'41	0°54'25	retrograde	2167 Dec 26 14:48	25°♏24'28	
	2162 Sep 23 13:13	0°♌		min. Earth dist.	2168 Feb 03 03:45	16°♏12'13	0.66742 AU
morning rise	2162 Nov 05 05:21	27°♌50'56		opposition	2168 Feb 04 19:48	15°♏32'03	4°33'28
	2162 Nov 08 11:15	0°♍		greatest brilliancy	2168 Feb 04 10:12	15°♏41'41	-1.3m
	2162 Dec 22 23:04	0°♎		direct	2168 Mar 15 19:54	5°♏58'21	
desc. node	2163 Jan 11 10:14	13°♎26'36			2168 Jun 01 05:33	0°♎	
	2163 Feb 04 00:38	0°♌			2168 Jul 25 13:35	0°♌	
	2163 Mar 17 21:09	0°♍		desc. node	2168 Sep 02 07:20	24°♌12'45	
	2163 Apr 27 23:47	0°♎			2168 Sep 11 03:12	0°♍	
	2163 Jun 08 09:26	0°♏			2168 Oct 24 19:42	0°♎	
	2163 Jul 22 16:45	0°♎			2168 Dec 04 17:39	0°♌	
	2163 Sep 26 18:25	0°♏		evening set	2168 Dec 12 01:50	5°♌33'06	
retrograde	2163 Oct 09 08:23	1°♏07'04			2169 Jan 12 19:00	0°♍	
	2163 Oct 21 15:26	30°♏		max. Earth dist.	2169 Jan 26 07:34	10°♍35'50	2.37295 AU
min. Earth dist.	2163 Nov 06 21:39	25°♎29'18	0.47535 AU				
asc. node	2163 Nov 12 01:42	23°♎38'58		conjunction	2169 Feb 12 19:31	24°♍23'40	-1°-4'-38
opposition	2163 Nov 15 03:25	22°♎32'37	0°10'11	minimum elong	2169 Feb 12 20:00	24°♍24'37	1°04'39
greatest brilliancy	2164 Feb 20 13:22	4°♏29'43	-3.2m		2169 Feb 19 21:46	0°♎	
direct	2163 Dec 18 10:59	15°♎34'50			2169 Mar 30 00:03	0°♏	
	2164 Feb 10 18:36	0°♏		morning rise	2169 Apr 24 15:30	19°♏51'31	
	2164 Apr 08 20:27	0°♌			2169 May 07 23:09	0°♎	
	2164 May 30 08:04	0°♏			2169 Jun 17 14:02	0°♏	
	2164 Jul 18 16:38	0°♎		asc. node	2169 Jul 03 21:58	11°♏37'25	
	2164 Sep 04 07:54	0°♌			2169 Jul 30 13:14	0°♌	
evening set	2164 Sep 12 06:59	5°♌07'53			2169 Sep 14 16:36	0°♏	
max. Earth dist.	2164 Oct 04 23:41	19°♌58'20	2.60245 AU		2169 Nov 05 05:31	0°♎	
	2164 Oct 20 00:54	0°♍		retrograde	2170 Jan 29 03:17	28°♎43'07	
conjunction	2164 Oct 28 17:08	5°♍51'04	0°17'40	opposition	2170 Mar 09 20:12	19°♎20'33	4°01'27
minimum elong	2164 Oct 28 17:46	5°♍52'09	0°17'39	greatest brilliancy	2170 Mar 10 05:26	19°♎11'25	-1.2m
desc. node	2164 Nov 28 08:34	26°♍57'05		min. Earth dist.	2170 Mar 12 01:21	18°♎28'01	0.67170 AU
	2164 Dec 02 16:53	0°♎		direct	2170 Apr 20 04:14	9°♎20'38	
morning rise	2164 Dec 15 13:53	9°♎06'54			2170 Jun 28 06:40	0°♌	
	2165 Jan 13 11:05	0°♌		desc. node	2170 Jul 21 05:55	12°♌07'39	
	2165 Feb 22 16:31	0°♍			2170 Aug 20 07:27	0°♍	
	2165 Apr 02 22:49	0°♎			2170 Oct 04 11:22	0°♎	
	2165 May 12 00:45	0°♏			2170 Nov 14 18:33	0°♌	
	2165 Jun 21 00:32	0°♎			2170 Dec 23 20:38	0°♍	
	2165 Aug 02 15:00	0°♏		greatest brilliancy	2171 Jan 30 22:40	0°♎	
	2165 Sep 21 07:04	0°♌		evening set	2171 Feb 06 02:25	4°♎52'00	1.2m
asc. node	2165 Sep 29 01:04	3°♌53'25			2171 Feb 18 13:59	14°♎42'56	
					2171 Mar 10 01:55	0°♏	

	2171 Apr 18 04:19	0°♄		desc. node	2176 Mar 12 02:31	0°♁07'06	
					2176 May 05 00:53	0°♁	
conjunction	2171 Apr 26 17:40	6°♄24'45	0°-16'-18	retrograde	2176 Jul 05 19:43	18°♁22'33	
minimum elong	2171 Apr 26 19:01	6°♄27'14	0°16'17	opposition	2176 Aug 05 01:03	13°♁23'02	-6°-43'-41
asc. node	2171 May 21 21:51	24°♄55'13		greatest brilliancy	2176 Aug 05 23:49	13°♁07'38	-2.8m
	2171 May 28 22:56	0°♂		min. Earth dist.	2176 Aug 08 01:47	12°♁33'55	0.37961 AU
max. Earth dist.	2171 Jun 11 22:30	9°♂57'12	2.47756 AU	direct	2176 Sep 04 21:53	8°♁04'02	
morning rise	2171 Jun 27 11:24	20°♂48'42			2176 Nov 08 10:40	0°♄	
	2171 Jul 10 20:32	0°♁			2176 Dec 26 22:47	0°♂	
	2171 Aug 25 02:38	0°♂		asc. node	2177 Jan 10 18:31	9°♂47'26	
	2171 Oct 12 00:22	0°♄			2177 Feb 10 00:33	0°♄	
	2171 Dec 03 02:44	0°♁			2177 Mar 27 02:45	0°♂	
	2172 Feb 10 23:15	0°♂			2177 May 12 02:29	0°♁	
retrograde	2172 Mar 07 07:38	3°♂28'15			2177 Jun 28 00:04	0°♂	
	2172 Mar 30 18:48	30°♂♁		evening set	2177 Jul 23 15:32	16°♂16'01	
opposition	2172 Apr 14 07:00	24°♁59'07	2°07'37		2177 Aug 14 07:25	0°♄	
greatest brilliancy	2172 Apr 14 23:13	24°♁43'39	-1.5m	max. Earth dist.	2177 Sep 01 16:42	11°♄41'15	2.67437 AU
min. Earth dist.	2172 Apr 20 05:51	22°♁42'53	0.61009 AU				
direct	2172 May 25 08:25	15°♁05'57		conjunction	2177 Sep 07 13:31	15°♄25'34	1°02'53
desc. node	2172 Jun 07 04:01	16°♁07'03		minimum elong	2177 Sep 07 14:21	15°♄26'53	1°02'52
	2172 Jul 18 22:03	0°♂			2177 Sep 30 07:51	0°♁	
	2172 Sep 09 10:29	0°♄		morning rise	2177 Oct 21 20:43	13°♁54'35	
	2172 Oct 22 17:05	0°♁			2177 Nov 15 11:55	0°♂	
	2172 Dec 01 13:54	0°♁			2177 Dec 30 13:06	0°♄	
	2173 Jan 09 03:12	0°♄		desc. node	2178 Jan 28 01:36	19°♄23'25	
	2173 Feb 16 17:03	0°♂			2178 Feb 12 11:50	0°♁	
asc. node	2173 Mar 28 07:21	0°♄			2178 Mar 27 13:22	0°♁	
	2173 Apr 07 21:38	7°♄49'48			2178 May 09 08:08	0°♄	
evening set	2173 Apr 25 04:56	20°♄25'26			2178 Jun 22 15:23	0°♂	
	2173 May 08 14:20	0°♂			2178 Aug 16 18:28	0°♄	
				retrograde	2178 Sep 17 23:18	6°♄46'09	
conjunction	2173 Jun 20 19:29	29°♂56'46	0°42'21	min. Earth dist.	2178 Oct 14 20:43	1°♄56'00	0.42426 AU
minimum elong	2173 Jun 20 17:47	29°♂53'53	0°42'21		2178 Oct 20 19:41	30°♂♂	
	2173 Jun 20 21:23	0°♁		opposition	2178 Oct 22 15:08	29°♂24'30	-2°-15'-12
max. Earth dist.	2173 Jul 15 20:58	16°♁42'47	2.59453 AU	greatest brilliancy	2178 Oct 21 18:12	29°♂41'34	-2.6m
	2173 Aug 05 03:21	0°♂		direct	2178 Nov 22 22:56	23°♂22'20	
morning rise	2173 Aug 10 19:47	3°♂41'23		asc. node	2178 Nov 28 18:30	23°♂35'32	
	2173 Sep 21 01:21	0°♄			2178 Dec 27 04:21	0°♄	
	2173 Nov 08 12:21	0°♁			2179 Feb 27 10:35	0°♂	
	2173 Dec 29 07:31	0°♂			2179 Apr 19 19:59	0°♁	
	2174 Feb 25 04:53	0°♄			2179 Jun 08 07:25	0°♂	
retrograde	2174 Apr 25 10:44	15°♄48'34			2179 Jul 26 20:08	0°♄	
desc. node	2174 Apr 25 03:17	15°♄48'32		evening set	2179 Aug 29 17:24	21°♄22'40	
opposition	2174 May 30 00:17	8°♄51'22	-1°-43'-42		2179 Sep 12 04:23	0°♁	
greatest brilliancy	2174 May 30 19:41	8°♄34'35	-2.1m	max. Earth dist.	2179 Sep 25 18:24	8°♁47'19	2.63300 AU
min. Earth dist.	2174 Jun 07 10:22	5°♄57'19	0.49210 AU				
direct	2174 Jul 07 00:35	0°♄18'47		conjunction	2179 Oct 14 09:32	21°♁00'16	0°34'18
	2174 Sep 22 16:45	0°♁		minimum elong	2179 Oct 14 10:33	21°♁01'57	0°34'17
	2174 Nov 05 22:30	0°♁			2179 Oct 27 22:16	0°♂	
	2174 Dec 16 12:55	0°♄		morning rise	2179 Nov 29 09:43	22°♂03'38	
	2175 Jan 25 13:11	0°♂			2179 Dec 10 20:26	0°♄	
asc. node	2175 Feb 23 19:46	21°♂36'46		desc. node	2179 Dec 16 00:58	3°♄37'38	
	2175 Mar 07 08:50	0°♄			2180 Jan 22 00:34	0°♁	
	2175 Apr 18 17:45	0°♂			2180 Mar 02 17:43	0°♁	
	2175 Jun 01 21:43	0°♁			2180 Apr 11 12:18	0°♄	
evening set	2175 Jun 14 05:30	8°♁10'11			2180 May 21 03:24	0°♂	
	2175 Jul 17 16:02	0°♂			2180 Jun 30 22:25	0°♄	
					2180 Aug 14 12:45	0°♂	
conjunction	2175 Aug 02 10:02	10°♂08'48	1°07'23	asc. node	2180 Oct 15 16:49	29°♂32'39	
minimum elong	2175 Aug 02 09:32	10°♂07'59	1°07'23		2180 Oct 17 13:11	0°♁	
max. Earth dist.	2175 Aug 10 16:56	15°♂27'31	2.66172 AU	retrograde	2180 Nov 05 06:39	2°♁18'50	
	2175 Sep 02 11:51	0°♄			2180 Nov 23 01:59	30°♂♂	
morning rise	2175 Sep 17 06:18	9°♄23'10		min. Earth dist.	2180 Dec 07 05:57	25°♂21'12	0.55470 AU
	2175 Oct 19 18:47	0°♁		greatest brilliancy	2180 Dec 13 01:49	23°♂05'51	-1.8m
	2175 Dec 06 04:52	0°♂		opposition	2180 Dec 14 01:48	22°♂42'33	2°41'10
	2176 Jan 22 22:03	0°♄		direct	2181 Jan 19 00:36	14°♂36'11	
	2176 Mar 11 21:45	0°♁			2181 Mar 17 19:56	0°♁	

	2181 May 15 14:28	0°♁		conjunction	2186 Mar 30 09:04	9°♃54'38	0°-42'-31
	2181 Jul 06 04:04	0°♆		minimum elong	2186 Mar 30 12:15	10°♃00'48	0°42'30
	2181 Aug 23 15:05	0°♁			2186 Apr 25 15:20	0°♃	
evening set	2181 Oct 06 06:14	28°♁28'57		max. Earth dist.	2186 May 20 20:47	18°♃47'05	2.42341 AU
	2181 Oct 08 12:30	0°♃		morning rise	2186 Jun 05 09:51	0°♃04'49	
max. Earth dist.	2181 Oct 23 05:44	9°♃58'44	2.54086 AU		2186 Jun 05 07:10	0°♃	
desc. node	2181 Nov 01 23:38	16°♃41'12		asc. node	2186 Jun 07 14:25	1°♃39'16	
	2181 Nov 20 23:43	0°♃			2186 Jul 18 03:17	0°♃	
					2186 Sep 01 13:24	0°♁	
conjunction	2181 Nov 24 01:36	2°♃11'07	0°-13'-8		2186 Oct 20 07:19	0°♆	
minimum elong	2181 Nov 24 01:01	2°♃10'05	0°13'08		2186 Dec 14 21:54	0°♁	
behind sun begin	2181 Nov 23 12:17	1°♃47'28		retrograde	2187 Feb 20 16:14	19°♁39'26	
behind sun end	2181 Nov 24 13:44	2°♃32'42		opposition	2187 Mar 31 11:38	10°♁45'56	3°02'42
	2182 Jan 01 07:42	0°♃		greatest brilliancy	2187 Apr 01 03:50	10°♁30'12	-1.4m
morning rise	2182 Jan 15 20:55	10°♃52'44		min. Earth dist.	2187 Apr 05 00:18	9°♁00'24	0.64185 AU
	2182 Feb 10 00:18	0°♃		direct	2187 May 11 21:06	0°♁44'39	
	2182 Mar 20 17:40	0°♃		desc. node	2187 Jun 24 19:45	10°♁38'09	
	2182 Apr 28 07:01	0°♃			2187 Aug 03 08:35	0°♃	
	2182 Jun 06 15:04	0°♃			2187 Sep 20 07:47	0°♃	
	2182 Jul 17 21:35	0°♃			2187 Nov 01 11:55	0°♃	
	2182 Aug 31 22:15	0°♃			2187 Dec 10 22:07	0°♃	
asc. node	2182 Sep 02 15:31	1°♃04'12			2188 Jan 18 04:55	0°♃	
	2182 Oct 26 01:14	0°♁			2188 Feb 25 12:53	0°♃	
retrograde	2182 Dec 13 03:34	12°♁04'15		evening set	2188 Apr 01 07:39	27°♃20'12	
min. Earth dist.	2183 Jan 19 01:41	3°♁23'28	0.64782 AU		2188 Apr 04 20:54	0°♃	
opposition	2183 Jan 22 06:09	2°♁06'46	4°24'12	asc. node	2188 Apr 24 13:09	14°♃33'51	
greatest brilliancy	2183 Jan 21 13:16	2°♁23'44	-1.4m		2188 May 15 21:34	0°♃	
	2183 Jan 27 14:29	30°♃					
direct	2183 Mar 02 09:00	22°♃50'38		conjunction	2188 Jun 01 03:42	11°♃29'47	0°23'17
	2183 Apr 09 02:40	0°♁		minimum elong	2188 Jun 01 02:22	11°♃27'26	0°23'16
	2183 Jun 13 03:40	0°♆			2188 Jun 27 23:25	0°♃	
	2183 Aug 03 17:41	0°♁		max. Earth dist.	2188 Jul 04 03:28	4°♃10'43	2.55415 AU
desc. node	2183 Sep 19 22:20	0°♃14'31		morning rise	2188 Jul 25 13:50	18°♃29'29	
	2183 Sep 19 13:37	0°♃			2188 Aug 12 03:27	0°♁	
	2183 Nov 02 02:03	0°♃			2188 Sep 28 06:46	0°♆	
evening set	2183 Nov 21 05:30	13°♃49'12			2188 Nov 16 15:41	0°♁	
max. Earth dist.	2183 Dec 09 19:03	27°♃33'19	2.41373 AU		2189 Jan 09 10:23	0°♃	
	2183 Dec 13 01:18	0°♃		retrograde	2189 Apr 04 08:35	28°♃01'40	
				opposition	2189 May 10 11:15	20°♃22'12	0°03'32
conjunction	2184 Jan 17 19:07	27°♃19'46	0°-59'-53	greatest brilliancy	2201 Mar 04 11:55	12°♃57'10	45.4m
minimum elong	2184 Jan 17 17:21	27°♃16'20	0°59'54	desc. node	2189 May 11 18:08	19°♃54'01	
	2184 Jan 21 05:35	0°♃		min. Earth dist.	2189 May 18 05:54	17°♃32'20	0.54335 AU
	2184 Feb 28 11:09	0°♃		direct	2189 Jun 19 03:19	11°♃04'06	
morning rise	2184 Mar 25 01:27	20°♃09'30			2189 Aug 18 18:15	0°♃	
	2184 Apr 06 15:05	0°♃			2189 Oct 06 04:14	0°♃	
	2184 May 15 14:32	0°♃			2189 Nov 16 16:31	0°♃	
	2184 Jun 25 05:59	0°♃			2189 Dec 26 02:36	0°♃	
asc. node	2184 Jul 20 15:24	17°♃54'17			2190 Feb 03 08:06	0°♃	
	2184 Aug 07 09:43	0°♃		asc. node	2190 Mar 12 12:27	27°♃47'57	
	2184 Sep 23 08:53	0°♁			2190 Mar 15 12:23	0°♃	
	2184 Nov 17 18:43	0°♆			2190 Apr 26 08:12	0°♃	
retrograde	2185 Jan 15 14:25	16°♆03'28		evening set	2190 May 27 08:30	21°♃24'22	
opposition	2185 Feb 24 15:00	6°♆26'33	4°22'58		2190 Jun 09 01:47	0°♃	
greatest brilliancy	2185 Feb 24 17:19	6°♆24'14	-1.2m				
min. Earth dist.	2185 Feb 25 07:38	6°♆09'59	0.67787 AU	conjunction	2190 Jul 17 20:14	25°♃37'47	1°01'34
	2185 Mar 14 10:19	30°♃		minimum elong	2190 Jul 17 19:06	25°♃35'56	1°01'35
direct	2185 Apr 06 14:11	26°♁33'45			2190 Jul 24 13:33	0°♁	
	2185 May 01 19:17	0°♆		max. Earth dist.	2190 Aug 01 04:51	4°♁56'48	2.64196 AU
	2185 Jul 10 00:57	0°♁		morning rise	2190 Sep 03 04:35	26°♁05'18	
desc. node	2185 Aug 06 21:14	16°♁09'58			2190 Sep 09 08:18	0°♆	
	2185 Aug 28 23:42	0°♃			2190 Oct 26 22:46	0°♁	
	2185 Oct 12 08:56	0°♃			2190 Dec 14 06:39	0°♃	
	2185 Nov 22 10:51	0°♃			2191 Feb 02 02:55	0°♃	
	2185 Dec 31 11:38	0°♃		desc. node	2191 Mar 29 18:24	0°♃21'23	
evening set	2186 Jan 21 06:01	16°♃19'22			2191 Mar 29 00:53	0°♃	
	2186 Feb 07 13:10	0°♃		retrograde	2191 Jun 05 09:35	20°♃39'45	
	2186 Mar 17 15:15	0°♃		opposition	2191 Jul 06 23:49	15°♃02'54	-5°-8'-41

greatest brilliancy	2191 Jul 08 15:52	14°☾33'03	-2.6m	evening set	2196 Sep 20 19:29	13°♁41'37	
min. Earth dist.	2191 Jul 13 23:59	12°☾58'09	0.41332 AU	max. Earth dist.	2196 Oct 11 06:45	27°♁13'26	2.58243 AU
direct	2191 Aug 09 21:10	8°☾27'22			2196 Oct 15 10:13	0°♁	
	2191 Oct 11 18:13	0°≈					
	2191 Nov 27 13:43	0°☿		conjunction	2196 Nov 06 21:20	15°♁16'18	0°06'55
	2192 Jan 09 09:05	0°♃		minimum elong	2196 Nov 06 21:36	15°♁16'47	0°06'55
asc. node	2192 Jan 28 10:40	13°♃28'52		behind sun begin	2196 Nov 06 03:04	14°♁44'55	
	2192 Feb 20 23:33	0°♄		behind sun end	2196 Nov 07 16:08	15°♁48'41	
	2192 Apr 04 15:09	0°♅		desc. node	2196 Nov 18 14:51	23°♁24'03	
	2192 May 19 17:02	0°♆			2196 Nov 28 00:40	0°♁	
	2192 Jul 05 01:20	0°♁		morning rise	2196 Dec 26 04:09	20°♁08'58	
evening set	2192 Jul 08 15:15	2°♁17'36			2197 Jan 08 15:21	0°☾	
	2192 Aug 21 02:24	0°♂			2197 Feb 17 16:02	0°≈	
					2197 Mar 28 17:18	0°☿	
conjunction	2192 Aug 24 10:14	2°♂06'55	1°07'43		2197 May 06 13:58	0°♃	
minimum elong	2192 Aug 24 10:38	2°♂07'33	1°07'43		2197 Jun 15 06:13	0°♄	
max. Earth dist.	2192 Aug 23 22:37	1°♂48'27	2.67601 AU		2197 Jul 27 04:30	0°♅	
morning rise	2192 Oct 07 22:39	0°♁30'12			2197 Sep 12 07:45	0°♆	
	2192 Oct 07 03:47	0°♁		asc. node	2197 Sep 19 08:55	3°♆58'18	
	2192 Nov 22 16:44	0°♁		retrograde	2197 Nov 29 03:35	27°♆50'36	
	2193 Jan 07 12:29	0°♁		min. Earth dist.	2198 Jan 03 06:19	19°♆46'09	0.61816 AU
desc. node	2193 Feb 13 17:49	24°♁40'07		opposition	2198 Jan 07 22:35	17°♆54'10	3°59'58
	2193 Feb 21 18:01	0°☾		greatest brilliancy	2198 Jan 06 23:52	18°♆16'51	-1.5m
	2193 Apr 07 19:36	0°≈		direct	2198 Feb 14 23:12	9°♆00'40	
	2193 May 24 03:07	0°☿			2198 Apr 26 21:54	0°♁	
	2193 Jul 18 17:31	0°♃			2198 Jun 22 10:47	0°♄	
retrograde	2193 Aug 23 14:11	7°♃57'40			2198 Aug 11 10:12	0°♁	
min. Earth dist.	2193 Sep 19 11:21	3°♃30'21	0.38522 AU		2198 Sep 26 18:54	0°♁	
opposition	2193 Sep 24 12:30	2°♃03'33	-5°00'-52	desc. node	2198 Oct 06 13:51	6°♁36'00	
greatest brilliancy	2193 Sep 23 12:34	2°♃20'47	-2.8m	evening set	2198 Nov 01 22:51	24°♁50'22	
	2193 Oct 02 00:01	30°♂☿			2198 Nov 09 05:48	0°♁	
direct	2193 Oct 24 08:20	26°♂53'24		max. Earth dist.	2198 Nov 16 10:37	5°♁08'47	2.46486 AU
	2193 Nov 15 16:33	0°♃			2198 Dec 20 07:43	0°☾	
asc. node	2193 Dec 15 09:29	11°♃11'04					
	2194 Jan 20 03:46	0°♄		conjunction	2198 Dec 25 05:54	3°☾41'42	0°-44'-47
	2194 Mar 11 07:13	0°♅		minimum elong	2198 Dec 25 03:55	3°☾37'57	0°44'47
	2194 Apr 28 16:35	0°♆			2199 Jan 28 15:56	0°≈	
	2194 Jun 15 20:56	0°♁		morning rise	2199 Feb 24 08:50	20°≈49'58	
	2194 Aug 02 19:17	0°♂			2199 Mar 08 01:02	0°☿	
evening set	2194 Aug 15 10:13	7°♂57'57		greatest brilliancy	2199 Apr 05 09:21	22°♂15'12	1.2m
max. Earth dist.	2194 Sep 16 03:51	28°♂11'53	2.65564 AU		2199 Apr 15 07:28	0°♃	
	2194 Sep 18 23:02	0°♁			2199 May 24 08:35	0°♄	
					2199 Jul 04 02:47	0°♅	
conjunction	2194 Sep 29 20:11	7°♁01'55	0°47'57	asc. node	2199 Aug 07 06:59	23°♂44'47	
minimum elong	2194 Sep 29 21:18	7°♁03'45	0°47'55		2199 Aug 16 16:07	0°♆	
	2194 Nov 03 19:36	0°♁			2199 Oct 04 03:13	0°♁	
morning rise	2194 Nov 13 17:18	6°♁37'00			2199 Dec 10 04:45	0°♂	
	2194 Dec 18 02:22	0°♁		retrograde	2200 Jan 03 06:44	3°♂19'16	
desc. node	2195 Jan 01 16:06	10°♁06'46			2200 Jan 25 14:45	30°♂♁	
	2195 Jan 29 19:55	0°☾		opposition	2200 Feb 12 11:10	23°♁31'22	4°33'05
	2195 Mar 12 05:32	0°≈		greatest brilliancy	2200 Feb 12 05:51	23°♁36'41	-1.2m
	2195 Apr 21 18:32	0°☿		min. Earth dist.	2200 Feb 11 15:17	23°♁51'16	0.67392 AU
	2195 Jun 01 08:01	0°♃		direct	2200 Mar 24 20:38	13°♁49'52	
	2195 Jul 13 18:01	0°♄			2200 May 24 10:56	0°♂	
	2195 Sep 01 23:19	0°♅			2200 Jul 20 17:34	0°♁	
retrograde	2195 Oct 20 03:02	13°♅33'03		desc. node	2200 Aug 24 12:32	21°♁16'35	
asc. node	2195 Nov 02 09:37	12°♅14'24			2200 Sep 07 00:40	0°♁	
min. Earth dist.	2195 Nov 18 20:36	7°♅26'05	0.50431 AU		2200 Oct 20 23:01	0°♁	
opposition	2195 Nov 26 18:12	4°♅30'18	1°15'39		2200 Nov 30 22:52	0°☾	
greatest brilliancy	2195 Nov 26 03:44	4°♅43'46	-2.1m	evening set	2200 Dec 26 17:42	19°☾40'57	
	2195 Dec 10 06:09	30°♂♄			2201 Jan 09 00:18	0°≈	
direct	2195 Dec 31 01:42	27°♂05'26			2201 Feb 16 02:35	0°☿	
	2196 Jan 22 07:16	0°♅					
	2196 Apr 01 10:27	0°♆		conjunction	2201 Mar 02 02:00	11°♂02'50	-1°00'-43
	2196 May 24 17:01	0°♁		minimum elong	2201 Mar 02 04:11	11°♂07'09	1°00'44
	2196 Jul 13 17:31	0°♂			2201 Mar 26 04:26	0°♃	
	2196 Aug 30 15:24	0°♁		max. Earth dist.	2201 Apr 05 01:01	7°♃41'03	2.37593 AU

	2201 May 04 03:01	0°♄		retrograde	2206 May 09 20:29	27°♁33'54	
morning rise	2201 May 11 17:01	5°♁42'57		opposition	2206 Jun 12 11:43	21°♁03'37	-2°-55'-7
	2201 Jun 13 16:57	0°♂		greatest brilliancy	2206 Jun 13 18:11	20°♁38'20	-2.3m
asc. node	2201 Jun 25 06:40	8°♂16'36		min. Earth dist.	2206 Jun 20 21:35	18°♁17'25	0.46306 AU
	2201 Jul 26 13:20	0°♆		direct	2206 Jul 19 05:46	13°♁06'30	
	2201 Sep 10 07:27	0°♁			2206 Sep 12 03:55	0°♄	
	2201 Oct 30 11:03	0°♃			2206 Oct 30 05:33	0°♁	
retrograde	2202 Jan 02 14:05	0°♂			2206 Dec 11 00:45	0°♁	
	2202 Feb 07 03:35	6°♂31'55			2207 Jan 20 16:45	0°♃	
	2202 Mar 11 13:41	30°♃♂		asc. node	2207 Feb 15 03:04	18°♃35'13	
opposition	2202 Mar 18 13:48	27°♃18'35	3°43'28		2207 Mar 02 23:12	0°♄	
greatest brilliancy	2202 Mar 19 02:10	27°♃06'25	-1.3m		2207 Apr 14 16:05	0°♂	
min. Earth dist.	2202 Mar 21 14:52	26°♃06'43	0.66377 AU		2207 May 29 01:59	0°♆	
direct	2202 Apr 28 23:36	17°♃16'39		evening set	2207 Jun 24 19:17	17°♆33'23	
	2202 Jun 19 11:41	0°♂			2207 Jul 14 00:05	0°♁	
desc. node	2202 Jul 12 11:33	10°♂55'42					
	2202 Aug 15 03:56	0°♃		conjunction	2207 Aug 11 23:32	18°♁35'24	1°08'42
	2202 Sep 30 02:40	0°♁		minimum elong	2207 Aug 11 23:23	18°♁35'10	1°08'43
	2202 Nov 10 16:30	0°♄		max. Earth dist.	2207 Aug 17 01:33	21°♁50'05	2.66922 AU
	2202 Dec 19 21:10	0°♁			2207 Aug 29 21:02	0°♃	
	2203 Jan 27 00:35	0°♁		morning rise	2207 Sep 26 04:50	17°♃22'34	
	2203 Mar 06 05:07	0°♃			2207 Oct 16 01:22	0°♂	
evening set	2203 Mar 07 14:00	1°♃03'59			2207 Dec 02 02:32	0°♃	
	2203 Apr 14 08:49	0°♄		desc. node	2208 Jan 18 00:05	0°♁	
					2208 Mar 03 08:54	28°♁49'38	
conjunction	2203 May 11 18:42	20°♄18'04	0°00'-57		2208 Mar 05 05:40	0°♄	
minimum elong	2203 May 11 18:49	20°♄18'15	0°00'58		2208 Apr 23 07:37	0°♁	
behind sun begin	2203 May 10 16:56	19°♄31'05			2208 Jun 22 15:17	0°♁	
behind sun end	2203 May 12 20:41	21°♄05'22		retrograde	2208 Jul 25 05:42	6°♁13'20	
asc. node	2203 May 13 05:56	21°♄22'12		opposition	2208 Aug 24 08:56	1°♁13'25	-6°-45'-53
	2203 May 25 04:37	0°♂		min. Earth dist.	2208 Aug 24 08:49	1°♁13'30	0.37279 AU
max. Earth dist.	2203 Jun 22 08:51	19°♂52'13	2.50651 AU	greatest brilliancy	2208 Aug 24 12:19	1°♁11'11	-2.9m
	2203 Jul 07 02:35	0°♆			2208 Aug 29 01:36	30°♃♁	
morning rise	2203 Jul 09 15:09	1°♆43'02		direct	2208 Sep 23 01:29	26°♁16'28	
	2203 Aug 21 06:21	0°♁			2208 Oct 17 10:05	0°♁	
	2203 Oct 07 18:56	0°♃			2208 Dec 18 06:19	0°♃	
	2203 Nov 27 14:14	0°♂		asc. node	2209 Jan 02 02:58	9°♃05'04	
	2204 Jan 26 14:44	0°♃			2209 Feb 04 00:06	0°♄	
retrograde	2204 Mar 17 21:30	12°♃14'48			2209 Mar 22 06:49	0°♂	
opposition	2204 Apr 24 06:39	4°♃01'17	1°27'55		2209 May 07 22:12	0°♆	
greatest brilliancy	2204 Apr 24 20:00	3°♃48'43	-1.6m		2209 Jun 24 04:34	0°♁	
min. Earth dist.	2204 Apr 30 22:36	1°♃30'37	0.58866 AU	evening set	2209 Aug 02 00:46	24°♁23'42	
	2204 May 05 02:42	30°♃♁			2209 Aug 10 16:19	0°♃	
desc. node	2204 May 29 10:40	24°♂28'51		max. Earth dist.	2209 Sep 07 23:12	17°♃58'25	2.67003 AU
direct	2204 Jun 03 23:10	24°♂16'33					
	2204 Jul 05 13:23	0°♃		conjunction	2209 Sep 16 15:36	23°♃31'27	0°58'22
	2204 Sep 03 07:57	0°♁		minimum elong	2209 Sep 16 16:36	23°♃33'03	0°58'22
	2204 Oct 17 18:42	0°♄			2209 Sep 26 17:44	0°♂	
	2204 Nov 27 01:50	0°♁		morning rise	2209 Oct 31 00:14	22°♂14'59	
	2205 Jan 04 20:30	0°♁			2209 Nov 11 18:56	0°♃	
	2205 Feb 12 14:25	0°♃			2209 Dec 26 13:05	0°♁	
	2205 Mar 24 08:16	0°♄		desc. node	2210 Jan 19 07:45	16°♁18'30	
asc. node	2205 Mar 30 03:48	4°♄17'38			2210 Feb 08 00:03	0°♄	
	2205 May 04 18:30	0°♂			2210 Mar 22 08:30	0°♁	
evening set	2205 May 08 13:49	2°♂41'08			2210 May 03 02:08	0°♁	
	2205 Jun 17 04:14	0°♆			2210 Jun 14 10:10	0°♃	
					2210 Jul 31 03:09	0°♄	
conjunction	2205 Jul 02 02:32	10°♆01'06	0°50'56	retrograde	2210 Oct 01 13:02	21°♄30'28	
minimum elong	2205 Jul 02 00:56	9°♆58'26	0°50'55	min. Earth dist.	2210 Oct 29 04:45	16°♄15'35	0.45180 AU
max. Earth dist.	2205 Jul 23 01:35	23°♆51'54	2.61384 AU	opposition	2210 Nov 06 10:44	13°♄25'22	0°-47'-24
	2205 Aug 01 11:12	0°♁		greatest brilliancy	2210 Nov 06 01:59	13°♄32'55	-2.4m
morning rise	2205 Aug 20 13:46	12°♁20'51		asc. node	2210 Nov 20 01:43	9°♄14'10	
	2205 Sep 17 06:53	0°♃		direct	2210 Dec 08 21:49	6°♄51'38	
	2205 Nov 04 08:36	0°♂			2211 Feb 19 01:42	0°♂	
	2205 Dec 24 00:47	0°♃			2211 Apr 14 12:40	0°♆	
	2206 Feb 15 17:14	0°♁			2211 Jun 04 00:57	0°♁	
desc. node	2206 Apr 16 09:34	24°♁29'38			2211 Jul 23 00:30	0°♃	

evening set	2211 Sep 08 00:37	29°♄39'41			2216 Jun 21 05:44	0°♁		
	2211 Sep 08 13:15	0°♁		asc. node	2216 Jul 11 22:04	14°♁40'52		
max. Earth dist.	2211 Oct 02 15:17	15°♁37'56	2.61714 AU		2216 Aug 03 05:01	0°♁		
					2216 Sep 18 13:20	0°♁		
conjunction	2211 Oct 24 01:09	29°♁49'15	0°24'58		2216 Nov 10 05:03	0°♁		
minimum elong	2211 Oct 24 01:59	29°♁50'38	0°24'57	retrograde	2217 Jan 24 08:08	23°♁47'09		
	2211 Oct 24 07:34	0°♁		opposition	2217 Mar 05 04:38	14°♁17'43	4°11'39	
desc. node	2211 Dec 07 06:12	0°♁05'09		greatest brilliancy	2217 Mar 05 10:52	14°♁11'31	-1.2m	
	2211 Dec 07 03:15	0°♁		min. Earth dist.	2217 Mar 06 17:08	13°♁41'28	0.67578 AU	
morning rise	2211 Dec 09 23:11	1°♁59'05		direct	2217 Apr 15 09:02	4°♁20'33		
	2212 Jan 18 02:41	0°♁			2217 Jul 03 18:57	0°♁		
	2212 Feb 27 13:47	0°♁		desc. node	2217 Jul 29 03:25	14°♁00'30		
	2212 Apr 07 01:23	0°♁			2217 Aug 24 10:08	0°♁		
	2212 May 16 08:20	0°♁			2217 Oct 08 07:10	0°♁		
	2212 Jun 25 14:08	0°♁			2217 Nov 18 13:15	0°♁		
	2212 Aug 07 18:29	0°♁			2217 Dec 27 15:25	0°♁		
	2212 Sep 29 06:31	0°♁			2218 Feb 03 17:11	0°♁		
asc. node	2212 Oct 07 00:34	3°♁21'55		evening set	2218 Feb 07 02:07	2°♁40'03		
retrograde	2212 Nov 15 07:24	12°♁21'59			2218 Mar 13 19:23	0°♁		
min. Earth dist.	2212 Dec 18 10:40	4°♁58'53	0.57949 AU					
greatest brilliancy	2212 Dec 23 11:50	2°♁59'50	-1.7m	conjunction	2218 Apr 16 04:28	25°♁43'58	0°-27'-58	
opposition	2212 Dec 24 13:08	2°♁34'55	3°17'01	minimum elong	2218 Apr 16 06:47	25°♁48'22	0°27'58	
	2212 Dec 31 07:45	30°♁			2218 Apr 21 19:43	0°♁		
direct	2213 Jan 30 06:47	24°♁09'48		asc. node	2218 May 29 21:25	28°♁07'55		
	2213 Mar 04 11:15	0°♁			2218 Jun 01 11:36	0°♁		
	2213 May 09 22:27	0°♁		max. Earth dist.	2218 Jun 04 15:17	2°♁15'56	2.45333 AU	
	2213 Jul 01 20:27	0°♁		morning rise	2218 Jun 19 08:10	12°♁42'41		
	2213 Aug 19 19:02	0°♁			2218 Jul 14 06:58	0°♁		
	2213 Oct 04 20:23	0°♁			2218 Aug 28 12:49	0°♁		
evening set	2213 Oct 16 13:37	7°♁55'19			2218 Oct 15 16:26	0°♁		
desc. node	2213 Oct 24 05:17	13°♁09'41			2218 Dec 07 20:59	0°♁		
max. Earth dist.	2213 Nov 01 03:38	18°♁38'40	2.51490 AU	retrograde	2219 Mar 02 11:13	27°♁55'32		
	2213 Nov 17 07:42	0°♁		opposition	2219 Apr 09 19:51	19°♁14'49	2°32'25	
				greatest brilliancy	2219 Apr 10 12:30	18°♁58'47	-1.4m	
conjunction	2213 Dec 05 17:03	13°♁11'39	0°-25'-4	min. Earth dist.	2219 Apr 15 03:15	17°♁12'08	0.62552 AU	
minimum elong	2213 Dec 05 15:54	13°♁09'33	0°25'04	direct	2219 May 21 01:22	9°♁16'58		
	2213 Dec 28 13:45	0°♁		desc. node	2219 Jun 16 01:34	13°♁08'31		
morning rise	2214 Jan 30 02:20	24°♁35'00			2219 Jul 26 23:07	0°♁		
	2214 Feb 06 03:33	0°♁			2219 Sep 15 05:13	0°♁		
	2214 Mar 16 17:51	0°♁			2219 Oct 28 00:29	0°♁		
	2214 Apr 24 04:23	0°♁			2219 Dec 06 17:03	0°♁		
	2214 Jun 02 09:02	0°♁			2220 Jan 14 03:15	0°♁		
	2214 Jul 13 08:56	0°♁			2220 Feb 21 13:53	0°♁		
asc. node	2214 Aug 25 00:06	28°♁56'38			2220 Apr 01 00:18	0°♁		
	2214 Aug 26 15:28	0°♁		asc. node	2220 Apr 15 21:25	11°♁01'13		
	2214 Oct 17 01:42	0°♁		evening set	2220 Apr 16 04:09	11°♁13'35		
retrograde	2214 Dec 21 22:14	20°♁15'34			2220 May 12 02:58	0°♁		
min. Earth dist.	2215 Jan 28 17:49	11°♁17'06	0.65987 AU					
opposition	2215 Jan 31 02:31	10°♁20'11	4°31'19	conjunction	2220 Jun 13 14:44	22°♁43'44	0°34'56	
greatest brilliancy	2215 Jan 30 13:29	10°♁33'17	-1.3m	minimum elong	2220 Jun 13 13:05	22°♁40'53	0°34'55	
direct	2215 Mar 11 17:32	0°♁53'56			2220 Jun 24 06:16	0°♁		
	2215 Jun 07 06:20	0°♁		max. Earth dist.	2220 Jul 12 04:07	12°♁03'19	2.57729 AU	
	2215 Jul 30 08:53	0°♁		morning rise	2220 Aug 05 00:47	27°♁47'53		
desc. node	2215 Sep 11 04:52	27°♁03'08			2220 Aug 08 09:51	0°♁		
	2215 Sep 15 16:07	0°♁			2220 Sep 24 08:50	0°♁		
	2215 Oct 29 08:07	0°♁			2220 Nov 12 03:22	0°♁		
evening set	2215 Dec 04 05:29	26°♁11'03			2221 Jan 02 22:40	0°♁		
	2215 Dec 09 07:44	0°♁			2221 Mar 07 02:51	0°♁		
max. Earth dist.	2215 Dec 30 13:31	16°♁09'02	2.38792 AU	retrograde	2221 Apr 16 21:23	8°♁16'51		
	2216 Jan 17 10:58	0°♁		desc. node	2221 May 03 00:44	6°♁37'54		
				opposition	2221 May 22 04:53	0°♁59'28	0°-55'-3	
conjunction	2216 Feb 02 15:24	12°♁40'12	-1°-4'-15	greatest brilliancy	2221 May 22 15:19	0°♁50'11	-2.0m	
minimum elong	2216 Feb 02 14:40	12°♁38'46	1°04'16		2221 May 24 23:35	30°♁		
	2216 Feb 24 15:00	0°♁		min. Earth dist.	2221 May 30 10:08	28°♁04'51	0.51559 AU	
	2216 Apr 02 17:38	0°♁		direct	2221 Jun 30 00:42	22°♁03'51		
morning rise	2216 Apr 12 11:23	7°♁35'24			2221 Aug 05 14:36	0°♁		
	2216 May 11 16:03	0°♁			2221 Sep 29 10:40	0°♁		

	2221 Nov 11 06:27	0°♊			2226 Oct 31 04:56	0°♌		
	2221 Dec 21 06:24	0°♋		morning rise	2226 Nov 23 12:34	15°♌42'37		
	2222 Jan 29 20:49	0°♌			2226 Dec 14 07:41	0°♍		
asc. node	2222 Mar 03 19:40	24°♌30'08		desc. node	2226 Dec 23 22:17	6°♍41'44		
	2222 Mar 11 08:11	0°♍			2227 Jan 25 18:08	0°♎		
	2222 Apr 22 09:37	0°♎			2227 Mar 07 18:42	0°♏		
	2222 Jun 05 07:38	0°♏			2227 Apr 16 20:44	0°♐		
evening set	2222 Jun 07 17:44	1°♏37'08			2227 May 26 20:01	0°♑		
	2222 Jul 20 21:49	0°♐			2227 Jul 07 03:21	0°♒		
					2227 Aug 22 05:07	0°♓		
conjunction	2222 Jul 27 21:01	4°♐30'23	1°05'30	asc. node	2227 Oct 24 16:44	24°♓42'34		
minimum elong	2222 Jul 27 20:15	4°♐29'07	1°05'30	retrograde	2227 Oct 31 03:39	25°♓00'17		
max. Earth dist.	2222 Aug 07 18:23	11°♐31'16	2.65390 AU	min. Earth dist.	2227 Dec 01 03:33	18°♓24'13	0.53295 AU	
	2222 Sep 05 16:25	0°♑		opposition	2227 Dec 08 11:45	15°♓36'08	2°09'11	
morning rise	2222 Sep 12 07:39	4°♑13'01		greatest brilliancy	2227 Dec 07 14:12	15°♓56'45	-1.9m	
	2222 Oct 23 02:07	0°♒		direct	2228 Jan 12 17:11	7°♓47'05		
	2222 Dec 09 20:40	0°♓			2228 Mar 24 20:25	0°♔		
	2223 Jan 27 09:03	0°♔			2228 May 19 19:38	0°♕		
	2223 Mar 19 06:40	0°♕			2228 Jul 09 16:29	0°♖		
desc. node	2223 Mar 21 00:04	0°♕57'57			2228 Aug 26 22:31	0°♗		
	2223 May 21 09:22	0°♘		evening set	2228 Sep 30 12:07	22°♗27'10		
retrograde	2223 Jun 23 16:16	6°♘05'48			2228 Oct 11 19:51	0°♘		
opposition	2223 Jul 24 08:08	0°♘53'42	-6°-12'-28	max. Earth dist.	2228 Oct 19 00:36	4°♘50'56	2.56041 AU	
greatest brilliancy	2223 Jul 25 18:36	0°♘29'26	-2.7m	desc. node	2228 Nov 09 21:21	19°♘50'10		
	2223 Jul 27 12:24	30°♘♄						
min. Earth dist.	2223 Jul 29 11:03	29°♘27'26	0.39186 AU	conjunction	2228 Nov 17 10:38	25°♘06'11	0°-4'-30	
direct	2223 Aug 25 12:14	25°♘03'49		minimum elong	2228 Nov 17 10:25	25°♘05'49	0°04'31	
	2223 Sep 22 02:35	0°♙		behind sun begin	2228 Nov 16 14:17	24°♘30'36		
	2223 Nov 18 22:40	0°♚		behind sun end	2228 Nov 18 06:33	25°♘41'04		
	2224 Jan 03 02:41	0°♛			2228 Nov 24 09:42	0°♜		
asc. node	2224 Jan 19 18:09	11°♛24'20			2229 Jan 04 21:32	0°♝		
	2224 Feb 15 20:40	0°♞		morning rise	2229 Jan 07 12:14	1°♝55'59		
	2224 Mar 31 04:33	0°♟			2229 Feb 13 18:20	0°♞		
	2224 May 15 16:59	0°♠			2229 Mar 24 15:10	0°♟		
	2224 Jul 01 07:37	0°♑			2229 May 02 07:09	0°♞		
evening set	2224 Jul 18 07:38	10°♑49'45			2229 Jun 10 17:29	0°♞		
	2224 Aug 17 11:47	0°♒			2229 Jul 22 03:55	0°♟		
max. Earth dist.	2224 Aug 30 02:44	8°♒01'28	2.67611 AU		2229 Sep 05 18:54	0°♠		
				asc. node	2229 Sep 10 15:00	2°♠55'16		
conjunction	2224 Sep 02 13:39	10°♒13'21	1°05'20		2229 Nov 04 07:47	0°♓		
minimum elong	2224 Sep 02 14:19	10°♒14'24	1°05'20	retrograde	2229 Dec 08 06:19	6°♓35'13		
	2224 Oct 03 12:42	0°♔			2230 Jan 08 17:00	30°♓♄		
morning rise	2224 Oct 16 21:37	8°♔36'03		min. Earth dist.	2230 Jan 13 09:25	28°♔10'14	0.63584 AU	
	2224 Nov 18 20:45	0°♕		greatest brilliancy	2230 Jan 16 10:31	26°♔57'03	-1.4m	
	2225 Jan 03 06:08	0°♖		opposition	2230 Jan 17 06:24	26°♔37'07	4°16'15	
desc. node	2225 Feb 04 22:51	22°♖00'05		direct	2230 Feb 24 22:03	17°♔30'32		
	2225 Feb 16 17:33	0°♗			2230 Apr 17 20:40	0°♕		
	2225 Apr 01 13:37	0°♘			2230 Jun 17 10:19	0°♖		
	2225 May 15 12:48	0°♙			2230 Aug 07 08:01	0°♗		
retrograde	2225 Sep 08 10:55	25°♙07'59		desc. node	2230 Sep 23 00:17	0°♘		
min. Earth dist.	2225 Oct 05 00:56	20°♙33'06	0.40444 AU		2230 Sep 27 19:57	3°♘13'26		
opposition	2225 Oct 11 22:28	18°♙25'49	-3°-27'-38	evening set	2230 Nov 05 13:29	0°♚		
greatest brilliancy	2225 Oct 10 20:37	18°♙45'45	-2.7m	max. Earth dist.	2230 Nov 13 14:24	5°♚44'52		
direct	2225 Nov 11 10:50	12°♙48'54			2230 Nov 29 09:18	17°♚12'56	2.43646 AU	
asc. node	2225 Dec 06 18:20	16°♙39'42			2230 Dec 16 14:59	0°♛		
	2226 Jan 09 08:25	0°♞		conjunction	2231 Jan 08 02:34	17°♛02'25	0°-54'-17	
	2226 Mar 05 03:27	0°♟		minimum elong	2231 Jan 08 00:29	16°♛58'27	0°54'18	
	2226 Apr 24 00:03	0°♠			2231 Jan 24 21:49	0°♞		
	2226 Jun 11 20:17	0°♑			2231 Mar 04 05:07	0°♟		
	2226 Jul 30 02:26	0°♒		morning rise	2231 Mar 13 17:27	7°♟29'33		
evening set	2226 Aug 24 14:22	16°♒04'45			2231 Apr 11 09:44	0°♞		
	2226 Sep 15 09:13	0°♓			2231 May 20 09:02	0°♟		
max. Earth dist.	2226 Sep 22 15:19	4°♓40'50	2.64415 AU		2231 Jun 29 23:57	0°♟		
				asc. node	2231 Jul 29 15:13	20°♓48'35		
conjunction	2226 Oct 09 02:28	15°♓23'39	0°40'23		2231 Aug 12 05:17	0°♠		
minimum elong	2226 Oct 09 03:34	15°♓25'27	0°40'22		2231 Sep 28 14:14	0°♑		

	2231 Nov 25 16:11	0°♄			2236 Nov 21 07:53	0°≈		
retrograde	2232 Jan 11 22:26	11°♄07'55			2236 Dec 30 10:31	0°✠		
opposition	2232 Feb 21 00:59	1°♄25'32	4°28'32		2237 Feb 07 09:49	0°♃		
greatest brilliancy	2232 Feb 20 23:53	1°♄26'37	-1.2m		2237 Mar 19 08:12	0°♄		
min. Earth dist.	2232 Feb 21 00:52	1°♄25'38	0.67739 AU	asc. node	2237 Mar 20 12:17	0°♄51'44		
	2232 Feb 24 14:55	30°♃♁			2237 Apr 29 22:10	0°♂		
direct	2232 Apr 01 18:33	21°♁37'22		evening set	2237 May 20 01:45	14°♂03'16		
	2232 May 13 00:31	0°♄			2237 Jun 12 10:50	0°♄		
	2232 Jul 14 13:05	0°♁						
desc. node	2232 Aug 14 18:39	18°♁33'45		conjunction	2237 Jul 11 19:41	19°♄33'03	0°57'42	
	2232 Sep 01 19:13	0°♃		minimum elong	2237 Jul 11 18:20	19°♄30'49	0°57'41	
	2232 Oct 16 01:08	0°♂			2237 Jul 27 19:11	0°♁		
	2232 Nov 26 03:11	0°♄		max. Earth dist.	2237 Jul 29 00:21	0°♁47'24	2.63034 AU	
	2233 Jan 04 04:59	0°≈		morning rise	2237 Aug 29 00:33	20°♁45'07		
evening set	2233 Jan 10 07:52	4°≈47'23			2237 Sep 12 13:28	0°♄		
	2233 Feb 11 06:56	0°✠			2237 Oct 30 07:50	0°♁		
					2237 Dec 18 03:39	0°♃		
conjunction	2233 Mar 18 15:32	27°✠52'54	0°-51'-54		2238 Feb 07 07:24	0°♂		
minimum elong	2233 Mar 18 18:45	27°✠59'11	0°51'53	desc. node	2238 Apr 06 15:47	29°♂11'04		
	2233 Mar 21 08:30	0°♃			2238 Apr 08 16:26	0°♄		
	2233 Apr 29 07:07	0°♄		retrograde	2238 May 24 19:23	10°♄32'22		
max. Earth dist.	2233 May 07 16:00	6°♄18'21	2.39993 AU	opposition	2238 Jun 26 07:31	4°♄31'53	-4°-11'-17	
morning rise	2233 May 26 16:45	20°♄25'20		greatest brilliancy	2238 Jun 27 22:04	4°♄01'40	-2.5m	
	2233 Jun 08 20:44	0°♂		min. Earth dist.	2238 Jul 04 05:33	2°♄03'48	0.43440 AU	
asc. node	2233 Jun 15 14:38	4°♂50'44			2238 Jul 11 13:05	30°♃♁		
	2233 Jul 21 15:16	0°♄		direct	2238 Jul 31 14:04	27°♂18'05		
	2233 Sep 05 02:26	0°♁			2238 Aug 20 16:23	0°♄		
	2233 Oct 24 06:23	0°♄			2238 Oct 20 20:10	0°≈		
	2233 Dec 21 03:09	0°♁			2238 Dec 03 18:45	0°✠		
retrograde	2234 Feb 15 09:00	14°♁28'08			2239 Jan 14 10:36	0°♃		
opposition	2234 Mar 26 11:17	5°♁25'10	3°21'06	asc. node	2239 Feb 05 10:54	15°♃50'22		
greatest brilliancy	2234 Mar 27 01:59	5°♁10'46	-1.3m		2239 Feb 25 08:17	0°♄		
min. Earth dist.	2234 Mar 30 07:35	3°♁54'53	0.65294 AU		2239 Apr 09 11:46	0°♂		
	2234 Apr 10 00:50	30°♃♁			2239 May 24 05:04	0°♄		
direct	2234 May 06 21:25	25°♄22'51		evening set	2239 Jul 03 22:55	26°♄32'38		
	2234 Jun 04 22:45	0°♁			2239 Jul 09 07:43	0°♁		
desc. node	2234 Jul 02 17:29	10°♁38'34						
	2234 Aug 08 11:41	0°♃		conjunction	2239 Aug 20 07:06	26°♁49'56	1°08'36	
	2234 Sep 24 13:42	0°♂		minimum elong	2239 Aug 20 07:16	26°♁50'13	1°08'36	
	2234 Nov 05 12:20	0°♄		max. Earth dist.	2239 Aug 22 07:50	28°♁07'30	2.67405 AU	
	2234 Dec 14 20:41	0°≈			2239 Aug 25 06:31	0°♄		
	2235 Jan 22 01:51	0°✠		morning rise	2239 Oct 04 01:28	25°♄19'57		
	2235 Mar 01 07:38	0°♃			2239 Oct 11 09:03	0°♁		
evening set	2235 Mar 22 23:02	16°♃41'18			2239 Nov 27 03:19	0°♃		
	2235 Apr 09 12:44	0°♄			2240 Jan 12 09:54	0°♂		
asc. node	2235 May 03 13:00	17°♄47'35		desc. node	2240 Feb 22 15:31	26°♂53'35		
	2235 May 20 09:50	0°♂			2240 Feb 27 09:54	0°♄		
					2240 Apr 13 20:30	0°≈		
conjunction	2235 May 24 19:33	3°♂08'52	0°13'31		2240 Jun 02 08:08	0°✠		
minimum elong	2235 May 24 18:40	3°♂07'17	0°13'30	retrograde	2240 Aug 11 22:16	24°♄38'27		
behind sun begin	2235 May 24 05:28	2°♂43'46		min. Earth dist.	2240 Sep 08 18:56	20°♄05'08	0.37559 AU	
behind sun end	2235 May 25 07:52	3°♂30'48		opposition	2240 Sep 11 18:39	19°♄16'20	-6°00'-49	
max. Earth dist.	2235 Jun 30 17:06	28°♂52'45	2.53367 AU	greatest brilliancy	2240 Sep 11 04:04	19°♄26'17	-2.9m	
	2235 Jul 02 08:33	0°♄		direct	2240 Oct 11 07:11	14°♄19'44		
morning rise	2235 Jul 20 02:15	11°♄58'11			2240 Dec 04 16:26	0°♃		
	2235 Aug 16 10:55	0°♁		asc. node	2240 Dec 23 09:25	9°♃45'27		
	2235 Oct 02 16:35	0°♄			2241 Jan 26 23:15	0°♄		
	2235 Nov 21 12:50	0°♁			2241 Mar 16 01:24	0°♂		
	2236 Jan 16 04:19	0°♃			2241 May 02 13:36	0°♄		
retrograde	2236 Mar 28 02:39	21°♃30'30			2241 Jun 19 07:09	0°♁		
opposition	2236 May 03 19:46	13°♃34'46	0°41'42		2241 Aug 06 00:39	0°♄		
greatest brilliancy	2236 May 04 03:16	13°♃27'49	-1.7m	evening set	2241 Aug 10 07:06	2°♄41'45		
min. Earth dist.	2236 May 11 02:58	10°♃52'31	0.56460 AU	max. Earth dist.	2241 Sep 13 06:01	24°♄17'09	2.66316 AU	
desc. node	2236 May 19 15:48	7°♃59'07			2241 Sep 22 03:40	0°♁		
direct	2236 Jun 12 23:59	4°♃02'53						
	2236 Aug 26 00:22	0°♂		conjunction	2241 Sep 24 17:45	1°♁39'55	0°52'41	
	2236 Oct 11 09:12	0°♄		minimum elong	2241 Sep 24 18:50	1°♁41'41	0°52'41	

	2241 Nov 07 02:51	0°♁		retrograde	2246 Dec 29 14:57	28°♁16'23	
morning rise	2241 Nov 08 07:28	0°♁47'25		min. Earth dist.	2247 Feb 06 07:06	19°♁01'21	0.66888 AU
	2241 Dec 21 15:22	0°♁		opposition	2247 Feb 07 19:51	18°♁24'30	4°33'53
desc. node	2242 Jan 09 13:40	13°♁04'04		greatest brilliancy	2247 Feb 07 10:59	18°♁33'23	-1.3m
	2242 Feb 02 16:54	0°♁		direct	2247 Mar 19 21:44	8°♁49'29	
	2242 Mar 16 12:29	0°♁			2247 May 30 10:28	0°♁	
	2242 Apr 26 12:43	0°♁			2247 Jul 24 18:05	0°♁	
	2242 Jun 06 16:49	0°♁		desc. node	2247 Sep 01 10:04	23°♁58'30	
	2242 Jul 20 07:59	0°♁			2247 Sep 10 15:57	0°♁	
	2242 Sep 15 19:31	0°♁			2247 Oct 24 13:07	0°♁	
retrograde	2242 Oct 13 00:45	4°♁53'35			2247 Dec 04 14:00	0°♁	
	2242 Nov 08 08:28	30°♁		evening set	2247 Dec 17 02:40	9°♁28'47	
asc. node	2242 Nov 10 09:10	29°♁18'21			2248 Jan 12 17:02	0°♁	
min. Earth dist.	2242 Nov 10 18:50	29°♁09'55	0.48063 AU	max. Earth dist.	2248 Feb 07 10:51	20°♁12'38	2.37113 AU
opposition	2242 Nov 18 22:51	26°♁13'14	0°28'10				
greatest brilliancy	2242 Nov 18 16:54	26°♁18'37	-2.2m	conjunction	2248 Feb 18 08:31	28°♁49'16	-1°-4'-10
direct	2242 Dec 22 10:58	19°♁10'04		minimum elong	2248 Feb 18 09:25	28°♁51'04	1°04'11
	2243 Feb 06 09:03	0°♁			2248 Feb 19 20:18	0°♁	
	2243 Apr 07 15:21	0°♁			2248 Mar 28 22:03	0°♁	
	2243 May 29 13:46	0°♁		morning rise	2248 Apr 29 06:40	24°♁15'50	
	2243 Jul 18 03:14	0°♁			2248 May 06 19:39	0°♁	
	2243 Sep 03 21:46	0°♁			2248 Jun 16 08:05	0°♁	
evening set	2243 Sep 16 10:05	8°♁03'45		asc. node	2248 Jul 02 06:30	11°♁22'44	
max. Earth dist.	2243 Oct 08 16:20	22°♁38'42	2.59895 AU		2248 Jul 29 03:44	0°♁	
	2243 Oct 19 17:16	0°♁			2248 Sep 13 01:05	0°♁	
					2248 Nov 02 22:34	0°♁	
conjunction	2243 Nov 01 22:42	8°♁55'20	0°14'48		2249 Jan 15 19:47	0°♁	
minimum elong	2243 Nov 01 23:15	8°♁56'15	0°14'48	retrograde	2249 Feb 01 05:10	1°♁32'32	
behind sun begin	2243 Nov 01 15:12	8°♁42'36			2249 Feb 16 15:22	30°♁	
behind sun end	2243 Nov 02 07:18	9°♁09'55		opposition	2249 Mar 12 20:07	22°♁11'28	3°56'29
desc. node	2243 Nov 27 12:29	26°♁32'23		greatest brilliancy	2249 Mar 13 05:53	22°♁01'49	-1.2m
	2243 Dec 02 11:06	0°♁		min. Earth dist.	2249 Mar 15 04:27	21°♁15'46	0.67034 AU
morning rise	2243 Dec 20 00:51	12°♁27'20		direct	2249 Apr 23 03:57	12°♁11'12	
	2244 Jan 13 06:22	0°♁			2249 Jun 25 07:33	0°♁	
	2244 Feb 22 12:13	0°♁		desc. node	2249 Jul 19 08:42	12°♁19'45	
	2244 Apr 01 18:08	0°♁			2249 Aug 18 12:52	0°♁	
	2244 May 10 18:41	0°♁			2249 Oct 03 01:30	0°♁	
	2244 Jun 19 15:18	0°♁			2249 Nov 13 12:56	0°♁	
	2244 Jul 31 22:13	0°♁			2249 Dec 22 17:14	0°♁	
	2244 Sep 18 11:45	0°♁		greatest brilliancy	2250 Jan 26 22:01	27°♁41'27	1.2m
asc. node	2244 Sep 27 08:48	4°♁39'24			2250 Jan 29 20:08	0°♁	
retrograde	2244 Nov 23 22:00	21°♁50'10		evening set	2250 Feb 23 05:40	19°♁14'41	
min. Earth dist.	2244 Dec 28 04:03	14°♁03'44	0.60186 AU		2250 Mar 08 23:11	0°♁	
greatest brilliancy	2245 Jan 01 11:35	12°♁21'01	-1.6m		2250 Apr 17 00:31	0°♁	
opposition	2245 Jan 02 12:11	11°♁56'35	3°44'43				
direct	2245 Feb 08 23:23	3°♁15'11		conjunction	2250 May 01 00:55	10°♁29'28	0°-12'-28
	2245 May 02 12:21	0°♁		minimum elong	2250 May 01 01:56	10°♁31'20	0°12'29
	2245 Jun 26 08:07	0°♁		behind sun begin	2250 Apr 30 08:51	9°♁59'37	
	2245 Aug 14 21:24	0°♁		behind sun end	2250 May 01 19:01	11°♁03'02	
	2245 Sep 30 04:04	0°♁		asc. node	2250 May 20 05:56	24°♁35'53	
desc. node	2245 Oct 14 11:37	9°♁40'18			2250 May 27 17:19	0°♁	
evening set	2245 Oct 26 05:54	17°♁45'48		max. Earth dist.	2250 Jun 15 12:07	13°♁21'36	2.48318 AU
max. Earth dist.	2245 Nov 09 22:51	28°♁03'38	2.48780 AU	morning rise	2250 Jul 01 04:13	24°♁16'23	
	2245 Nov 12 16:33	0°♁			2250 Jul 09 12:30	0°♁	
					2250 Aug 23 15:27	0°♁	
conjunction	2245 Dec 16 23:42	24°♁52'25	0°-36'-39		2250 Oct 10 08:10	0°♁	
minimum elong	2245 Dec 16 22:02	24°♁49'19	0°36'39		2250 Nov 30 21:46	0°♁	
	2245 Dec 23 21:15	0°♁			2251 Feb 04 02:18	0°♁	
	2246 Feb 01 08:34	0°♁		retrograde	2251 Mar 11 15:21	6°♁25'55	
morning rise	2246 Feb 13 09:22	9°♁19'37			2251 Apr 13 02:01	30°♁	
	2246 Mar 11 20:09	0°♁		opposition	2251 Apr 18 11:26	27°♁59'23	1°57'00
	2246 Apr 19 03:55	0°♁		greatest brilliancy	2251 Apr 19 02:50	27°♁44'42	-1.5m
	2246 May 28 05:39	0°♁		min. Earth dist.	2251 Apr 24 12:54	25°♁40'47	0.60627 AU
	2246 Jul 08 00:37	0°♁		direct	2251 May 29 10:41	18°♁07'26	
asc. node	2246 Aug 15 07:12	26°♁24'24		desc. node	2251 Jun 06 08:15	18°♁31'05	
	2246 Aug 20 18:02	0°♁			2251 Jul 16 06:33	0°♁	
	2246 Oct 09 01:12	0°♁			2251 Sep 08 14:43	0°♁	

	2251 Oct 22 07:12	0°☾			2256 Nov 14 02:28	0°♄		
	2251 Dec 01 07:52	0°♁			2256 Dec 29 03:36	0°♁		
	2252 Jan 08 22:32	0°♁	desc. node		2257 Jan 26 05:02	19°♁05'30		
	2252 Feb 16 12:22	0°♁			2257 Feb 11 01:07	0°☾		
	2252 Mar 27 01:49	0°♁			2257 Mar 25 23:51	0°♁		
asc. node	2252 Apr 06 03:42	7°♁27'35			2257 May 07 12:49	0°♁		
evening set	2252 Apr 29 05:34	24°♁13'59			2257 Jun 20 05:32	0°♁		
	2252 May 07 07:25	0°♁			2257 Aug 10 18:36	0°♁		
	2252 Jun 19 12:53	0°☾		retrograde	2257 Sep 22 01:23	11°♁02'00		
conjunction	2252 Jun 24 09:28	3°☾17'09	0°44'50	min. Earth dist.	2257 Oct 18 23:47	6°♁07'52	0.42924 AU	
minimum elong	2252 Jun 24 07:47	3°☾14'17	0°44'49	opposition	2257 Oct 26 22:08	3°♁31'43	-1°-52'-55	
max. Earth dist.	2252 Jul 18 15:23	19°☾27'49	2.59857 AU	greatest brilliancy	2257 Oct 26 03:54	3°♁46'45	-2.5m	
	2252 Aug 03 17:08	0°♁		direct	2257 Nov 07 16:04	30°♁		
morning rise	2252 Aug 14 01:17	6°♁42'32		asc. node	2257 Nov 27 12:08	27°♁23'27		
	2252 Sep 19 13:06	0°♁			2257 Nov 27 01:42	27°♁23'32		
	2252 Nov 06 20:31	0°♁			2257 Dec 18 04:04	0°♁		
	2252 Dec 27 06:44	0°♄			2258 Feb 24 21:38	0°♁		
	2253 Feb 21 15:21	0°♁			2258 Apr 17 22:53	0°☾		
desc. node	2253 Apr 23 07:04	19°♁03'35			2258 Jun 06 15:52	0°♁		
retrograde	2253 Apr 29 08:29	19°♁16'56		evening set	2258 Jul 25 07:35	0°♁		
opposition	2253 Jun 02 19:23	12°♁24'21	-2°00'-54		2258 Sep 01 20:12	24°♁17'30		
greatest brilliancy	2253 Jun 03 17:38	12°♁05'15	-2.1m	max. Earth dist.	2258 Sep 10 18:08	0°♁		
min. Earth dist.	2253 Jun 11 06:50	9°♁30'45	0.48680 AU		2258 Sep 28 08:19	11°♁22'43	2.63027 AU	
direct	2253 Jul 10 14:20	3°♁57'57		conjunction	2258 Oct 17 13:40	24°♁00'16	0°31'45	
	2253 Sep 20 03:33	0°☾		minimum elong	2258 Oct 17 14:38	24°♁01'52	0°31'45	
	2253 Nov 04 05:37	0°♁			2258 Oct 26 14:00	0°♄		
	2253 Dec 15 02:13	0°♁		morning rise	2258 Dec 02 17:11	25°♄14'23		
	2254 Jan 24 04:35	0°♁			2258 Dec 09 13:46	0°♁		
asc. node	2254 Feb 22 02:38	21°♁20'34		desc. node	2258 Dec 14 03:43	3°♁11'51		
	2254 Mar 06 00:34	0°♁			2259 Jan 20 18:52	0°☾		
	2254 Apr 17 08:51	0°♁			2259 Mar 02 12:17	0°♁		
	2254 May 31 11:56	0°☾			2259 Apr 11 06:11	0°♁		
evening set	2254 Jun 17 15:57	11°☾22'13			2259 May 20 19:08	0°♁		
	2254 Jul 16 05:29	0°♁			2259 Jun 30 09:05	0°♁		
conjunction	2254 Aug 05 15:12	13°♁08'18	1°07'53		2259 Aug 13 09:14	0°♁		
minimum elong	2254 Aug 05 14:47	13°♁07'38	1°07'53	asc. node	2259 Oct 10 12:27	0°☾		
max. Earth dist.	2254 Aug 13 05:12	17°♁59'43	2.66352 AU	retrograde	2259 Oct 15 00:05	1°☾27'27		
	2254 Sep 01 00:49	0°♁			2259 Nov 09 13:32	5°☾37'18		
morning rise	2254 Sep 20 07:44	12°♁15'37		min. Earth dist.	2259 Dec 07 22:51	30°♁		
	2254 Oct 18 07:05	0°♁		greatest brilliancy	2259 Dec 11 18:28	28°♁34'34	0.55951 AU	
	2254 Dec 04 15:23	0°♄		opposition	2259 Dec 17 10:09	26°♁22'38	-1.8m	
	2255 Jan 21 04:04	0°♁		direct	2259 Dec 18 11:08	25°♁58'17	2°52'07	
	2255 Mar 10 16:30	0°☾			2260 Jan 23 12:53	17°♁48'22		
desc. node	2255 Mar 11 06:05	0°☾20'32			2260 Mar 13 22:01	0°☾		
	2255 May 02 03:49	0°♁			2260 May 13 12:00	0°♁		
retrograde	2255 Jul 11 20:05	23°♁00'43			2260 Jul 04 11:34	0°♁		
opposition	2255 Aug 10 23:57	18°♁02'39	-6°-47'-55		2260 Aug 22 03:30	0°♁		
greatest brilliancy	2255 Aug 11 19:22	17°♁49'39	-2.8m	evening set	2260 Oct 07 04:13	0°♄		
min. Earth dist.	2255 Aug 13 11:34	17°♁22'49	0.37765 AU	max. Earth dist.	2260 Oct 09 13:01	1°♄35'20		
direct	2255 Sep 10 12:35	12°♁49'25		desc. node	2260 Oct 26 08:34	13°♄00'28	2.53596 AU	
	2255 Nov 05 12:18	0°♁			2260 Oct 31 02:42	16°♄16'53		
	2255 Dec 25 17:54	0°♁			2260 Nov 19 17:50	0°♁		
asc. node	2256 Jan 10 02:36	10°♁00'49		conjunction	2260 Nov 27 14:16	5°♁34'43	0°-16'-18	
	2256 Feb 09 06:29	0°♁		minimum elong	2260 Nov 27 13:32	5°♁33'25	0°16'19	
	2256 Mar 25 12:43	0°♁			2260 Dec 31 03:28	0°☾		
	2256 May 10 14:01	0°☾		morning rise	2261 Jan 19 20:57	14°☾46'01		
	2256 Jun 26 12:22	0°♁			2261 Feb 08 21:01	0°♁		
evening set	2256 Jul 26 19:46	19°♁12'41			2261 Mar 19 14:34	0°♁		
	2256 Aug 12 20:28	0°♁			2261 Apr 27 03:12	0°♁		
max. Earth dist.	2256 Sep 04 08:07	14°♁17'15	2.67381 AU		2261 Jun 05 09:18	0°♁		
					2261 Jul 16 11:45	0°♁		
conjunction	2256 Sep 10 15:54	18°♁19'08	1°01'41		2261 Aug 30 03:03	0°☾		
minimum elong	2256 Sep 10 16:46	18°♁20'31	1°01'41	asc. node	2261 Aug 31 23:51	1°☾10'37		
	2256 Sep 28 21:46	0°♁			2261 Oct 22 13:39	0°♁		
morning rise	2256 Oct 24 22:26	16°♁49'04		retrograde	2261 Dec 16 03:34	14°♁58'07		

min. Earth dist.	2262 Jan 22 05:21	6°♈14'25	0.65032 AU			2267 Apr 04 16:50	0°♄	
opposition	2262 Jan 25 06:48	5°♈00'43	4°26'55	evening set		2267 Apr 06 12:55	1°♄22'31	
greatest brilliancy	2262 Jan 24 14:26	5°♈17'09	-1.3m	asc. node		2267 Apr 23 21:03	14°♄13'18	
	2262 Feb 07 18:09	30°♈♄				2267 May 15 15:41	0°♄	
direct	2262 Mar 05 12:21	25°♄42'50						
	2262 Apr 02 22:32	0°♈		conjunction		2267 Jun 05 22:41	15°♄02'40	0°26'28
	2262 Jun 10 23:08	0°♄		minimum elong		2267 Jun 05 21:13	15°♄00'06	0°26'27
	2262 Aug 02 02:23	0°♄				2267 Jun 27 15:20	0°♄	
desc. node	2262 Sep 18 02:10	29°♄56'18		max. Earth dist.		2267 Jul 08 06:12	7°♄11'29	2.55861 AU
	2262 Sep 18 04:23	0°♄		morning rise		2267 Jul 29 23:13	21°♄39'14	
	2262 Oct 31 20:29	0°♄				2267 Aug 11 17:00	0°♈	
evening set	2262 Nov 24 23:27	17°♄25'43				2267 Sep 27 17:18	0°♄	
	2262 Dec 11 21:57	0°♄				2267 Nov 15 20:30	0°♄	
max. Earth dist.	2262 Dec 14 05:07	1°♄43'35	2.40828 AU			2268 Jan 07 21:57	0°♄	
	2263 Jan 20 03:19	0°♄				2268 Mar 24 05:38	0°♄	
				retrograde		2268 Apr 07 22:58	1°♄14'41	
conjunction	2263 Jan 22 02:39	1°♄32'05	-1°-1'-19			2268 Apr 21 23:24	30°♄♄	
minimum elong	2263 Jan 22 01:04	1°♄28'58	1°01'20	desc. node		2268 May 09 22:18	25°♄05'08	
	2263 Feb 27 08:58	0°♄		opposition		2268 May 13 22:58	23°♄38'58	0°-11'-7
morning rise	2263 Mar 31 00:06	24°♄54'33		greatest brilliancy		2268 Apr 18 19:09	0°♄30'04	-2.0m
	2263 Apr 06 12:08	0°♄		min. Earth dist.		2268 May 21 19:56	20°♄47'57	0.53828 AU
	2263 May 15 10:02	0°♄		direct		2268 Jun 22 10:58	14°♄24'51	
	2263 Jun 24 23:00	0°♄				2268 Aug 15 11:34	0°♄	
asc. node	2263 Jul 19 22:21	17°♄40'29				2268 Oct 04 08:39	0°♄	
	2263 Aug 06 22:44	0°♄				2268 Nov 15 05:44	0°♄	
	2263 Sep 22 13:49	0°♄				2268 Dec 24 19:08	0°♄	
	2263 Nov 15 17:53	0°♄				2269 Feb 02 01:41	0°♄	
retrograde	2264 Jan 19 14:21	18°♄51'10		asc. node		2269 Mar 10 19:50	27°♄29'26	
opposition	2264 Feb 28 14:00	9°♄15'25	4°19'56			2269 Mar 14 05:47	0°♄	
greatest brilliancy	2264 Feb 28 17:01	9°♄12'25	-1.2m			2269 Apr 25 00:42	0°♄	
min. Earth dist.	2264 Feb 29 09:45	8°♄55'45	0.67781 AU	evening set		2269 May 30 22:10	24°♄44'43	
	2264 Mar 30 14:32	30°♄♄				2269 Jun 07 17:01	0°♄	
direct	2264 Apr 09 14:22	29°♄21'57						
	2264 Apr 20 00:43	0°♄		conjunction		2269 Jul 21 03:18	28°♄41'42	1°02'48
	2264 Jul 07 19:48	0°♄		minimum elong		2269 Jul 21 02:16	28°♄40'02	1°02'47
desc. node	2264 Aug 05 00:54	16°♄07'40				2269 Jul 23 03:28	0°♄	
	2264 Aug 27 10:02	0°♄		max. Earth dist.		2269 Aug 03 17:11	7°♄29'40	2.64433 AU
	2264 Oct 11 01:47	0°♄		morning rise		2269 Sep 06 06:48	28°♄59'25	
	2264 Nov 21 07:11	0°♄				2269 Sep 07 20:56	0°♄	
	2264 Dec 30 09:44	0°♄				2269 Oct 25 09:40	0°♄	
evening set	2265 Jan 25 17:07	20°♄41'19				2269 Dec 12 14:01	0°♄	
	2265 Feb 06 11:40	0°♄				2270 Jan 31 01:20	0°♄	
	2265 Mar 16 13:01	0°♄				2270 Mar 25 15:51	0°♄	
				desc. node		2270 Mar 27 21:39	1°♄08'36	
conjunction	2265 Apr 04 00:24	14°♄21'22	0°-39'-10	retrograde		2270 Jun 10 02:10	24°♄46'27	
minimum elong	2265 Apr 04 03:29	14°♄27'20	0°39'09	opposition		2270 Jul 11 11:12	19°♄14'36	-5°-24'-38
	2265 Apr 24 11:32	0°♄		greatest brilliancy		2270 Jul 13 03:20	18°♄44'54	-2.6m
max. Earth dist.	2265 May 25 11:24	23°♄03'09	2.42890 AU	min. Earth dist.		2270 Jul 18 03:50	17°♄16'17	0.40888 AU
	2265 Jun 04 01:08	0°♄		direct		2270 Aug 14 01:39	12°♄47'26	
asc. node	2265 Jun 05 21:07	1°♄19'16				2270 Oct 08 01:58	0°♄	
morning rise	2265 Jun 09 13:16	3°♄57'34				2270 Nov 25 11:20	0°♄	
	2265 Jul 16 18:25	0°♄				2271 Jan 07 16:34	0°♄	
	2265 Aug 31 00:42	0°♄		asc. node		2271 Jan 26 18:08	13°♄25'07	
	2265 Oct 18 11:23	0°♄				2271 Feb 19 10:45	0°♄	
	2265 Dec 12 01:27	0°♄				2271 Apr 04 03:40	0°♄	
retrograde	2266 Feb 23 21:09	22°♄32'56				2271 May 19 05:51	0°♄	
opposition	2266 Apr 03 14:03	13°♄41'34	2°54'18			2271 Jul 04 14:14	0°♄	
greatest brilliancy	2266 Apr 04 06:08	13°♄25'56	-1.4m	evening set		2271 Jul 12 20:03	5°♄16'35	
min. Earth dist.	2266 Apr 08 05:29	11°♄53'24	0.63908 AU			2271 Aug 20 15:29	0°♄	
direct	2266 May 14 22:17	3°♄40'56						
desc. node	2266 Jun 22 23:19	11°♄42'21		conjunction		2271 Aug 28 12:20	5°♄00'12	1°07'09
	2266 Jul 31 23:57	0°♄		minimum elong		2271 Aug 28 12:48	5°♄00'57	1°07'08
	2266 Sep 18 17:55	0°♄		max. Earth dist.		2271 Aug 27 12:43	4°♄22'40	2.67624 AU
	2266 Oct 31 04:48	0°♄				2271 Oct 06 17:01	0°♄	
	2266 Dec 09 18:08	0°♄		morning rise		2271 Oct 11 23:28	3°♄22'33	
	2267 Jan 17 02:07	0°♄				2271 Nov 22 05:41	0°♄	
	2267 Feb 24 09:57	0°♄				2272 Jan 07 00:03	0°♄	

desc. node	2272 Feb 12 20:24	24°♁29'13		direct	2277 Feb 18 06:22	12°♄00'11	
	2272 Feb 21 02:23	0°♄			2277 Apr 23 19:34	0°♄	
	2272 Apr 05 21:30	0°♁			2277 Jun 20 12:50	0°♁	
	2272 May 21 13:25	0°♁			2277 Aug 09 20:55	0°♁	
	2272 Jul 12 17:08	0°♁			2277 Sep 25 10:23	0°♁	
retrograde	2272 Aug 27 23:43	12°♁37'10		desc. node	2277 Oct 04 17:42	6°♁14'56	
min. Earth dist.	2272 Sep 23 18:19	8°♁09'53	0.38834 AU	evening set	2277 Nov 05 09:47	28°♁08'52	
greatest brilliancy	2272 Sep 28 05:00	6°♁52'28	-2.8m		2277 Nov 08 00:33	0°♁	
opposition	2272 Sep 29 05:55	6°♁34'19	-4°-40'-20	max. Earth dist.	2277 Nov 20 03:21	8°♁39'55	2.45971 AU
direct	2272 Oct 29 02:59	1°♁19'39			2277 Dec 19 04:42	0°♄	
asc. node	2272 Dec 13 18:06	12°♁39'40					
	2273 Jan 17 08:17	0°♄		conjunction	2277 Dec 29 01:47	7°♄25'09	0°-47'-18
	2273 Mar 09 08:25	0°♁		minimum elong	2277 Dec 28 23:45	7°♄21'20	0°47'19
	2273 Apr 27 00:17	0°♄			2278 Jan 27 14:11	0°♁	
	2273 Jun 14 07:32	0°♄		morning rise	2278 Feb 28 20:43	25°♁11'30	
	2273 Aug 01 07:49	0°♁			2278 Mar 06 23:37	0°♁	
evening set	2273 Aug 18 11:36	10°♁49'19		greatest brilliancy	2278 Mar 27 14:12	16°♁11'51	1.2m
	2273 Sep 17 13:16	0°♁			2278 Apr 14 05:21	0°♁	
max. Earth dist.	2273 Sep 18 14:51	0°♁41'10	2.65366 AU		2278 May 23 04:39	0°♄	
					2278 Jul 02 19:40	0°♁	
conjunction	2273 Oct 02 21:47	9°♁55'24	0°45'54	asc. node	2278 Aug 05 15:10	23°♁37'03	
minimum elong	2273 Oct 02 22:54	9°♁57'13	0°45'54		2278 Aug 15 03:22	0°♄	
	2273 Nov 02 11:16	0°♁			2278 Oct 02 01:26	0°♄	
morning rise	2273 Nov 16 21:04	9°♁38'01			2278 Dec 03 14:01	0°♁	
	2273 Dec 16 18:53	0°♁		retrograde	2279 Jan 06 06:29	6°♁09'33	
desc. node	2273 Dec 30 19:45	9°♁44'08			2279 Feb 06 03:38	30°♁	
	2274 Jan 28 12:29	0°♄		opposition	2279 Feb 15 10:47	26°♁22'16	4°32'10
	2274 Mar 10 21:18	0°♁		greatest brilliancy	2279 Feb 15 06:10	26°♁26'53	-1.2m
	2274 Apr 20 08:26	0°♁		min. Earth dist.	2279 Feb 14 17:48	26°♁39'17	0.67491 AU
	2274 May 30 18:03	0°♁		direct	2279 Mar 27 22:23	16°♁39'33	
	2274 Jul 11 18:33	0°♄			2279 May 20 23:14	0°♁	
	2274 Aug 29 07:09	0°♁			2279 Jul 18 20:01	0°♁	
retrograde	2274 Oct 23 14:34	17°♁08'41		desc. node	2279 Aug 22 16:00	21°♁05'39	
asc. node	2274 Oct 31 16:52	16°♁39'13			2279 Sep 05 13:12	0°♁	
min. Earth dist.	2274 Nov 22 14:55	10°♁55'16	0.51001 AU		2279 Oct 19 16:35	0°♁	
opposition	2274 Nov 30 09:26	8°♁00'53	1°30'54		2279 Nov 29 19:20	0°♄	
greatest brilliancy	2274 Nov 29 16:31	8°♁16'44	-2.1m	evening set	2279 Dec 30 22:30	23°♁46'58	
direct	2275 Jan 03 20:32	0°♁31'07			2280 Jan 07 22:17	0°♁	
	2275 Mar 30 21:47	0°♄			2280 Feb 15 01:03	0°♁	
	2275 May 23 20:50	0°♄					
	2275 Jul 13 03:30	0°♁		conjunction	2280 Mar 05 17:36	15°♁33'42	0°-59'-3
	2275 Aug 30 05:07	0°♁		minimum elong	2280 Mar 05 20:06	15°♁38'39	0°59'03
evening set	2275 Sep 24 22:27	16°♁37'54			2280 Mar 24 02:26	0°♁	
max. Earth dist.	2275 Oct 15 01:28	29°♁57'45	2.57862 AU	max. Earth dist.	2280 Apr 14 06:16	16°♁26'38	2.37967 AU
	2275 Oct 15 02:49	0°♁			2280 May 01 23:44	0°♄	
				morning rise	2280 May 15 04:50	9°♁56'42	
conjunction	2275 Nov 11 03:44	18°♁23'15	0°03'56		2280 Jun 11 11:33	0°♁	
minimum elong	2275 Nov 11 03:51	18°♁23'29	0°03'57	asc. node	2280 Jun 22 14:46	7°♁59'15	
behind sun begin	2275 Nov 10 08:01	17°♁49'16			2280 Jul 24 04:48	0°♄	
behind sun end	2275 Nov 11 23:41	18°♁57'43			2280 Sep 07 17:50	0°♄	
desc. node	2275 Nov 17 19:06	22°♁59'28			2280 Oct 27 10:01	0°♁	
	2275 Nov 27 19:28	0°♁			2280 Dec 27 15:19	0°♁	
morning rise	2275 Dec 30 17:49	23°♁35'56		retrograde	2281 Feb 09 05:47	9°♁22'11	
	2276 Jan 08 11:33	0°♄		opposition	2281 Mar 20 14:15	0°♁10'31	3°37'09
	2276 Feb 17 12:46	0°♁		greatest brilliancy	2281 Mar 21 02:54	29°♁58'03	-1.3m
	2276 Mar 27 13:38	0°♁			2281 Mar 21 00:56	30°♁	
	2276 May 05 08:51	0°♁		min. Earth dist.	2281 Mar 23 18:01	28°♁55'59	0.66203 AU
	2276 Jun 13 22:05	0°♄		direct	2281 May 01 00:13	20°♁08'33	
	2276 Jul 25 14:17	0°♁			2281 Jun 14 11:10	0°♁	
	2276 Sep 10 00:50	0°♄		desc. node	2281 Jul 09 14:56	11°♁20'38	
asc. node	2276 Sep 17 14:58	4°♁23'21			2281 Aug 12 06:35	0°♁	
	2276 Nov 20 13:20	0°♄			2281 Sep 27 16:35	0°♁	
retrograde	2276 Dec 02 05:27	0°♁53'26			2281 Nov 08 11:24	0°♄	
	2276 Dec 13 11:07	30°♁			2281 Dec 17 18:25	0°♁	
min. Earth dist.	2277 Jan 06 12:58	22°♁45'22	0.62189 AU		2282 Jan 24 22:33	0°♁	
greatest brilliancy	2277 Jan 10 03:52	21°♁18'38	-1.5m		2282 Mar 04 02:38	0°♁	
opposition	2277 Jan 11 02:22	20°♁56'11	4°05'29	evening set	2282 Mar 11 02:06	5°♁25'34	

	2282 Apr 12 05:00	0°♄				2286 Oct 13 14:18	0°♅
asc. node	2282 May 10 12:46	21°♄00'17				2286 Nov 29 14:28	0°♆
						2287 Jan 15 09:07	0°♇
conjunction	2282 May 14 21:05	24°♄10'04	0°02'51	desc. node		2287 Mar 01 12:40	28°♇51'37
minimum elong	2282 May 14 20:54	24°♄09'45	0°02'50			2287 Mar 03 07:47	0°♄
behind sun begin	2282 May 13 19:24	23°♄23'27				2287 Apr 20 15:41	0°♁
behind sun end	2282 May 15 22:25	24°♄55'59				2287 Jun 15 12:17	0°♂
	2282 May 22 22:54	0°♂		retrograde		2287 Jul 30 07:34	11°♂05'16
max. Earth dist.	2282 Jun 24 18:08	23°♂07'01	2.51180 AU	opposition		2287 Aug 29 11:18	6°♂03'09 -6°-39'-30
	2282 Jul 04 18:35	0°♄		greatest brilliancy		2287 Aug 29 11:15	6°♂03'11 -2.9m
morning rise	2282 Jul 12 05:09	5°♄03'39		min. Earth dist.		2287 Aug 28 22:11	6°♂11'50 0.37225 AU
	2282 Aug 18 19:38	0°♂		direct		2287 Sep 28 02:21	1°♂08'17
	2282 Oct 05 04:02	0°♎				2287 Dec 15 06:17	0°♎
	2282 Nov 24 13:52	0°♅		asc. node		2287 Dec 31 09:09	9°♎35'15
	2283 Jan 21 19:10	0°♆				2288 Feb 01 23:03	0°♄
retrograde	2283 Mar 21 08:04	15°♆19'30				2288 Mar 19 13:25	0°♂
opposition	2283 Apr 27 14:16	7°♆08'59	1°15'38			2288 May 05 08:02	0°♄
greatest brilliancy	2283 Apr 28 02:06	6°♆57'51	-1.6m			2288 Jun 21 16:04	0°♂
min. Earth dist.	2283 May 04 08:34	4°♆36'35	0.58433 AU	evening set		2288 Aug 04 03:50	27°♂26'24
	2283 May 18 15:59	30°♆				2288 Aug 08 05:01	0°♎
desc. node	2283 May 27 13:32	28°♅12'16		max. Earth dist.		2288 Sep 09 13:20	20°♎32'47 2.66898 AU
direct	2283 Jun 07 04:16	27°♅26'39					
	2283 Jun 27 17:35	0°♆		conjunction		2288 Sep 18 17:09	26°♎24'19 0°56'50
	2283 Sep 01 04:54	0°♇		minimum elong		2288 Sep 18 18:10	26°♎25'57 0°56'50
	2283 Oct 16 06:28	0°♄				2288 Sep 24 07:31	0°♅
	2283 Nov 25 19:03	0°♁		morning rise		2288 Nov 02 01:53	25°♅10'44
	2284 Jan 03 15:54	0°♂				2288 Nov 09 09:39	0°♆
	2284 Feb 11 10:11	0°♎				2288 Dec 24 04:12	0°♇
	2284 Mar 22 03:15	0°♄		desc. node		2289 Jan 16 11:06	15°♇58'18
asc. node	2284 Mar 27 11:58	3°♄58'02				2289 Feb 05 14:48	0°♄
	2284 May 02 12:01	0°♂				2289 Mar 19 21:45	0°♁
evening set	2284 May 11 08:22	6°♂14'20				2289 Apr 30 12:02	0°♂
	2284 Jun 14 20:01	0°♄				2289 Jun 11 12:04	0°♎
						2289 Jul 27 02:00	0°♄
conjunction	2284 Jul 04 12:35	13°♄12'18	0°52'54	retrograde		2289 Oct 04 09:26	25°♄30'27
minimum elong	2284 Jul 04 11:02	13°♄09'44	0°52'54	min. Earth dist.		2289 Nov 01 05:34	20°♄09'44 0.45694 AU
max. Earth dist.	2284 Jul 24 19:41	26°♄35'04	2.61708 AU	opposition		2289 Nov 09 11:00	17°♄18'03 0°-27'-19
	2284 Jul 30 01:18	0°♂		greatest brilliancy		2289 Nov 09 05:50	17°♄22'34 -2.4m
morning rise	2284 Aug 22 17:30	15°♂17'58		asc. node		2289 Nov 17 08:41	14°♄40'26
	2284 Sep 14 19:13	0°♎		direct		2289 Dec 12 02:56	10°♄38'36
	2284 Nov 01 18:08	0°♅				2290 Feb 14 17:53	0°♂
	2284 Dec 21 03:49	0°♆				2290 Apr 11 10:41	0°♄
	2285 Feb 11 23:45	0°♇				2290 Jun 01 07:19	0°♂
desc. node	2285 Apr 13 12:48	26°♇34'10				2290 Jul 20 10:59	0°♎
	2285 Apr 28 03:45	0°♄				2290 Sep 06 02:39	0°♅
retrograde	2285 May 13 04:25	1°♄18'49		evening set		2290 Sep 10 03:23	2°♅35'17
	2285 May 27 17:32	30°♆		max. Earth dist.		2290 Oct 04 04:29	18°♅12'58 2.61397 AU
opposition	2285 Jun 15 14:20	24°♇54'26	-3°-13'-37			2290 Oct 21 23:16	0°♆
greatest brilliancy	2285 Jun 16 23:24	24°♇27'22	-2.3m				
min. Earth dist.	2285 Jun 23 23:31	22°♇10'35	0.45734 AU	conjunction		2290 Oct 26 05:39	2°♆51'26 0°22'14
direct	2285 Jul 22 03:04	17°♇05'26		minimum elong		2290 Oct 26 06:24	2°♆52'42 0°22'14
	2285 Sep 07 01:41	0°♄		desc. node		2290 Dec 04 09:56	29°♆41'18
	2285 Oct 27 03:10	0°♁				2290 Dec 04 20:38	0°♇
	2285 Dec 08 09:24	0°♂		morning rise		2290 Dec 12 08:10	5°♇14'57
	2286 Jan 18 05:40	0°♎				2291 Jan 15 21:07	0°♄
asc. node	2286 Feb 12 11:01	18°♎24'03				2291 Feb 25 08:34	0°♁
	2286 Feb 28 13:42	0°♄				2291 Apr 05 19:46	0°♂
	2286 Apr 12 06:47	0°♂				2291 May 15 01:12	0°♎
	2286 May 26 16:13	0°♄				2291 Jun 24 03:16	0°♄
evening set	2286 Jun 27 02:19	20°♄37'36				2291 Aug 05 22:16	0°♂
	2286 Jul 11 13:44	0°♂				2291 Sep 25 16:43	0°♄
				asc. node		2291 Oct 05 08:32	4°♄30'49
conjunction	2286 Aug 14 02:13	21°♂29'52	1°08'47	retrograde		2291 Nov 18 11:25	15°♄33'20
minimum elong	2286 Aug 14 02:10	21°♂29'47	1°08'47	min. Earth dist.		2291 Dec 21 20:01	8°♄06'12 0.58385 AU
max. Earth dist.	2286 Aug 18 13:18	24°♂20'39	2.67042 AU	opposition		2291 Dec 27 19:43	5°♄44'40 3°25'46
	2286 Aug 27 10:18	0°♎		greatest brilliancy		2291 Dec 26 18:01	6°♄10'02 -1.7m
morning rise	2286 Sep 28 05:01	20°♎12'46				2292 Jan 13 11:49	30°♆

direct	2292 Feb 02 16:39	27°♁16'36		asc. node	2297 May 27 05:47	27°♁48'32	
	2292 Feb 24 15:45	0°♁			2297 May 30 06:32	0°♁	
	2292 May 06 13:43	0°♁		max. Earth dist.	2297 Jun 07 13:07	5°♁56'18	2.45908 AU
	2292 Jun 29 01:51	0°♁		morning rise	2297 Jun 22 04:09	16°♁17'20	
	2292 Aug 17 06:39	0°♁			2297 Jul 11 23:23	0°♁	
	2292 Oct 02 12:03	0°♁			2297 Aug 26 01:51	0°♁	
evening set	2292 Oct 18 21:13	11°♁04'30			2297 Oct 12 23:42	0°♁	
desc. node	2292 Oct 21 09:01	12°♁46'50			2297 Dec 04 12:13	0°♁	
max. Earth dist.	2292 Nov 03 07:55	21°♁44'06	2.51002 AU		2298 Feb 20 17:25	0°♁	
	2292 Nov 15 02:15	0°♁		retrograde	2298 Mar 04 16:46	0°♁49'45	
					2298 Mar 16 02:48	30°♁	
conjunction	2292 Dec 08 07:01	16°♁39'29	0°-28'-5	opposition	2298 Apr 11 22:56	22°♁11'15	2°22'47
minimum elong	2292 Dec 08 05:44	16°♁37'08	0°28'06	greatest brilliancy	2298 Apr 12 15:04	21°♁55'43	-1.5m
	2292 Dec 26 10:12	0°♁		min. Earth dist.	2298 Apr 17 09:13	20°♁06'00	0.62213 AU
morning rise	2293 Feb 02 05:25	28°♁36'21		direct	2298 May 23 03:18	12°♁14'22	
	2293 Feb 04 00:54	0°♁		desc. node	2298 Jun 13 05:53	14°♁50'44	
	2293 Mar 14 15:14	0°♁			2298 Jul 23 01:46	0°♁	
	2293 Apr 22 00:53	0°♁			2298 Sep 12 12:36	0°♁	
	2293 May 31 03:33	0°♁			2298 Oct 25 15:59	0°♁	
	2293 Jul 10 23:49	0°♁			2298 Dec 04 11:54	0°♁	
asc. node	2293 Aug 22 07:11	28°♁55'19			2299 Jan 11 23:20	0°♁	
	2293 Aug 23 22:58	0°♁			2299 Feb 19 09:55	0°♁	
	2293 Oct 13 09:38	0°♁			2299 Mar 30 19:28	0°♁	
retrograde	2293 Dec 23 21:53	23°♁08'38		asc. node	2299 Apr 14 03:38	10°♁38'15	
min. Earth dist.	2294 Jan 30 21:22	14°♁07'22	0.66182 AU	evening set	2299 Apr 20 07:50	15°♁09'54	
opposition	2294 Feb 02 02:56	13°♁13'39	4°32'41		2299 May 10 20:45	0°♁	
greatest brilliancy	2294 Feb 01 14:35	13°♁26'02	-1.3m				
direct	2294 Mar 13 20:45	3°♁45'52		conjunction	2299 Jun 17 06:54	26°♁08'51	0°37'44
	2294 Jun 03 17:58	0°♁		minimum elong	2299 Jun 17 05:11	26°♁05'56	0°37'42
	2294 Jul 27 15:01	0°♁			2299 Jun 22 22:25	0°♁	
desc. node	2294 Sep 08 07:29	26°♁46'12		max. Earth dist.	2299 Jul 15 02:01	14°♁54'05	2.58177 AU
	2294 Sep 13 05:40	0°♁			2299 Aug 07 00:11	0°♁	
	2294 Oct 27 02:04	0°♁		morning rise	2299 Aug 08 07:34	0°♁51'07	
evening set	2294 Dec 07 03:09	29°♁57'28			2299 Sep 22 20:49	0°♁	
	2294 Dec 07 04:30	0°♁			2299 Nov 10 11:04	0°♁	
max. Earth dist.	2295 Jan 05 15:59	22°♁27'35	2.38391 AU		2299 Dec 31 18:58	0°♁	
	2295 Jan 15 09:18	0°♁			2300 Mar 02 05:46	0°♁	
				retrograde	2300 Apr 20 14:30	11°♁35'27	
conjunction	2295 Feb 06 01:41	16°♁58'54	-1°-4'-40	desc. node	2300 May 01 04:42	10°♁53'17	
minimum elong	2295 Feb 06 01:18	16°♁58'08	1°04'42	opposition	2300 May 25 19:37	4°♁22'18	-1°-11'-2
	2295 Feb 22 13:45	0°♁		greatest brilliancy	2300 May 26 08:58	4°♁10'32	-2.0m
	2295 Apr 01 15:47	0°♁		min. Earth dist.	2300 Jun 03 03:31	1°♁26'46	0.51039 AU
morning rise	2295 Apr 17 05:16	12°♁07'20			2300 Jun 07 12:39	30°♁	
	2295 May 10 12:36	0°♁		direct	2300 Jul 03 11:49	25°♁31'39	
	2295 Jun 19 23:45	0°♁			2300 Jul 30 06:26	0°♁	
asc. node	2295 Jul 10 06:12	14°♁26'23			2300 Sep 27 08:08	0°♁	
	2295 Aug 01 19:16	0°♁			2300 Nov 09 17:17	0°♁	
	2295 Sep 16 20:54	0°♁			2300 Dec 19 21:42	0°♁	
	2295 Nov 07 17:18	0°♁			2301 Jan 28 13:33	0°♁	
retrograde	2296 Jan 27 08:48	26°♁35'37		asc. node	2301 Mar 02 02:29	24°♁11'55	
opposition	2296 Mar 07 04:11	17°♁07'28	4°07'31		2301 Mar 10 00:50	0°♁	
greatest brilliancy	2296 Mar 07 11:02	17°♁00'40	-1.2m		2301 Apr 21 01:27	0°♁	
min. Earth dist.	2296 Mar 08 19:52	16°♁28'06	0.67491 AU		2301 Jun 03 22:24	0°♁	
direct	2296 Apr 17 09:33	7°♁09'49		evening set	2301 Jun 11 06:07	4°♁53'30	
	2296 Jun 30 04:51	0°♁			2301 Jul 19 11:40	0°♁	
desc. node	2296 Jul 26 06:00	14°♁04'48					
	2296 Aug 21 17:41	0°♁		conjunction	2301 Jul 31 03:01	7°♁31'33	1°06'19
	2296 Oct 05 22:19	0°♁		minimum elong	2301 Jul 31 02:21	7°♁30'28	1°06'18
	2296 Nov 16 08:21	0°♁		max. Earth dist.	2301 Aug 10 06:17	14°♁02'51	2.65607 AU
	2296 Dec 25 12:38	0°♁			2301 Sep 04 05:29	0°♁	
	2297 Feb 01 15:15	0°♁		morning rise	2301 Sep 15 09:06	7°♁05'15	
evening set	2297 Feb 10 17:09	7°♁10'40			2301 Oct 21 14:09	0°♁	
	2297 Mar 11 17:16	0°♁			2301 Dec 08 06:18	0°♁	
					2302 Jan 25 12:41	0°♁	
conjunction	2297 Apr 19 14:56	29°♁57'02	0°-24'-15		2302 Mar 16 17:49	0°♁	
minimum elong	2297 Apr 19 16:58	0°♁00'52	0°24'14	desc. node	2302 Mar 19 03:27	1°♁22'30	
	2297 Apr 19 16:30	0°♁			2302 May 14 14:06	0°♁	

retrograde	2302 Jun 28 11:46	10°♊29'39			2307 Oct 11 11:16	0°♌	
opposition	2302 Jul 29 02:05	5°♊21'04	-6°-23'-16	max. Earth dist.	2307 Oct 22 22:21	7°♌43'22	2.55587 AU
greatest brilliancy	2302 Jul 30 10:14	4°♊58'40	-2.8m	desc. node	2307 Nov 09 00:17	19°♌25'47	
min. Earth dist.	2302 Aug 02 18:01	4°♊03'27	0.38866 AU				
	2302 Aug 22 18:37	30°♋		conjunction	2307 Nov 21 21:01	28°♌24'16	0°-7'-38
direct	2302 Aug 29 20:41	29°♋39'02		minimum elong	2307 Nov 21 20:42	28°♌23'42	0°07'39
	2302 Sep 05 23:06	0°♋		behind sun begin	2307 Nov 21 02:01	27°♌50'55	
	2302 Nov 16 04:35	0°♋		behind sun end	2307 Nov 22 15:22	28°♌56'32	
	2303 Jan 01 04:47	0°♌			2307 Nov 24 03:25	0°♌	
asc. node	2303 Jan 18 02:24	11°♌29'09			2308 Jan 04 16:50	0°♌	
	2303 Feb 14 05:27	0°♌		morning rise	2308 Jan 12 07:57	5°♌39'11	
	2303 Mar 30 15:49	0°♌			2308 Feb 13 14:33	0°♌	
	2303 May 15 05:05	0°♌			2308 Mar 23 11:32	0°♌	
	2303 Jun 30 20:04	0°♌			2308 May 01 02:45	0°♌	
evening set	2303 Jul 22 11:59	13°♌47'21			2308 Jun 09 10:56	0°♌	
	2303 Aug 17 00:44	0°♌			2308 Jul 20 16:45	0°♌	
max. Earth dist.	2303 Sep 02 18:04	10°♌37'35	2.67601 AU		2308 Sep 03 20:18	0°♌	
				asc. node	2308 Sep 08 23:56	3°♌09'47	
conjunction	2303 Sep 06 15:31	13°♌06'18	1°04'23		2308 Oct 30 12:32	0°♌	
minimum elong	2303 Sep 06 16:15	13°♌07'27	1°04'23	retrograde	2308 Dec 11 06:17	9°♌31'48	
	2303 Oct 03 02:17	0°♌		min. Earth dist.	2309 Jan 16 13:47	1°♌03'49	0.63875 AU
morning rise	2303 Oct 20 22:28	11°♌28'45			2309 Jan 19 05:33	30°♌	
	2303 Nov 18 10:42	0°♌		opposition	2309 Jan 20 07:52	29°♌33'39	4°20'05
	2304 Jan 02 19:35	0°♌		greatest brilliancy	2309 Jan 19 12:25	29°♌53'07	-1.4m
desc. node	2304 Feb 04 02:42	21°♌45'52		direct	2309 Feb 28 03:13	20°♌25'02	
	2304 Feb 16 05:07	0°♌			2309 Apr 13 15:06	0°♌	
	2304 Mar 30 21:06	0°♌			2309 Jun 15 08:32	0°♌	
	2304 May 13 11:44	0°♌			2309 Aug 05 17:15	0°♌	
	2304 Jun 28 08:23	0°♌			2309 Sep 21 14:58	0°♌	
retrograde	2304 Sep 12 17:50	29°♌36'23		desc. node	2309 Sep 25 23:36	2°♌54'14	
min. Earth dist.	2304 Oct 09 05:59	24°♌59'00	0.40878 AU		2309 Nov 04 07:34	0°♌	
greatest brilliancy	2304 Oct 15 10:06	23°♌04'02	-2.7m	evening set	2309 Nov 17 05:25	9°♌14'16	
opposition	2304 Oct 16 10:30	22°♌44'59	-3°-4'-43	max. Earth dist.	2309 Dec 03 06:12	20°♌56'03	2.43078 AU
direct	2304 Nov 16 03:53	17°♌02'14			2309 Dec 15 11:12	0°♌	
asc. node	2304 Dec 05 01:46	19°♌15'06					
	2305 Jan 05 00:40	0°♌		conjunction	2310 Jan 12 05:44	21°♌04'31	0°-56'-18
	2305 Mar 02 21:27	0°♌		minimum elong	2310 Jan 12 03:44	21°♌00'40	0°56'19
	2305 Apr 22 04:52	0°♌			2310 Jan 23 19:07	0°♌	
	2305 Jun 10 05:19	0°♌			2310 Mar 03 02:35	0°♌	
	2305 Jul 28 13:55	0°♌		morning rise	2310 Mar 18 13:54	12°♌11'09	
evening set	2305 Aug 27 16:45	18°♌58'58			2310 Apr 10 06:35	0°♌	
	2305 Sep 13 22:43	0°♌			2310 May 19 04:24	0°♌	
max. Earth dist.	2305 Sep 25 04:14	7°♌14'37	2.64180 AU		2310 Jun 28 16:46	0°♌	
				asc. node	2310 Jul 27 22:48	20°♌37'24	
conjunction	2305 Oct 12 05:28	18°♌21'20	0°38'02		2310 Aug 10 17:45	0°♌	
minimum elong	2305 Oct 12 06:31	18°♌23'05	0°38'01		2310 Sep 26 17:15	0°♌	
	2305 Oct 29 20:16	0°♌			2310 Nov 22 00:20	0°♌	
morning rise	2305 Nov 26 18:14	18°♌49'07		retrograde	2311 Jan 14 21:19	13°♌55'42	
	2305 Dec 13 00:27	0°♌		opposition	2311 Feb 23 23:50	4°♌14'15	4°26'20
desc. node	2305 Dec 22 01:30	6°♌17'38		greatest brilliancy	2311 Feb 23 23:29	4°♌14'37	-1.2m
	2306 Jan 24 11:42	0°♌		min. Earth dist.	2311 Feb 24 02:53	4°♌11'13	0.67783 AU
	2306 Mar 06 12:17	0°♌			2311 Mar 07 00:58	30°♌	
	2306 Apr 15 13:18	0°♌		direct	2311 Apr 05 19:33	24°♌25'11	
	2306 May 25 09:55	0°♌			2311 May 08 15:53	0°♌	
	2306 Jul 05 10:47	0°♌			2311 Jul 13 11:33	0°♌	
	2306 Aug 19 16:25	0°♌		desc. node	2311 Aug 13 22:26	18°♌27'33	
asc. node	2306 Oct 23 00:02	27°♌30'30			2311 Sep 01 06:35	0°♌	
retrograde	2306 Nov 03 11:20	28°♌25'34			2311 Oct 15 18:23	0°♌	
min. Earth dist.	2306 Dec 04 17:17	21°♌44'35	0.53802 AU		2311 Nov 25 23:43	0°♌	
opposition	2306 Dec 11 23:07	18°♌57'58	2°21'54		2312 Jan 04 03:08	0°♌	
greatest brilliancy	2306 Dec 11 00:00	19°♌20'10	-1.9m	evening set	2312 Jan 15 16:17	9°♌02'42	
direct	2307 Jan 16 07:51	11°♌05'02			2312 Feb 11 05:25	0°♌	
	2307 Mar 22 16:22	0°♌			2312 Mar 20 06:17	0°♌	
	2307 May 18 19:28	0°♌					
	2307 Jul 09 00:29	0°♌		conjunction	2312 Mar 23 08:48	2°♌25'41	0°-49'-8
	2307 Aug 26 10:52	0°♌		minimum elong	2312 Mar 23 12:06	2°♌32'08	0°49'07
evening set	2307 Oct 04 17:52	25°♌31'01			2312 Apr 28 03:24	0°♌	

max. Earth dist.	2312 May 13 02:10	11°♄14'44	2.40516 AU	min. Earth dist.	2317 Jul 08 07:24	6°♁07'46	0.42937 AU
morning rise	2312 May 31 01:05	24°♄29'48		direct	2317 Aug 04 14:31	1°♁25'27	
	2312 Jun 07 14:50	0°♂			2317 Oct 18 04:43	0°≈	
asc. node	2312 Jun 13 20:54	4°♂30'16			2317 Dec 01 23:00	0°♁	
	2312 Jul 20 06:30	0°♁			2318 Jan 12 21:12	0°♂	
	2312 Sep 03 13:30	0°♂		asc. node	2318 Feb 03 18:11	15°♂41'39	
	2312 Oct 22 09:01	0°♁			2318 Feb 23 21:17	0°♄	
	2312 Dec 17 19:52	0°♁			2318 Apr 08 01:25	0°♂	
retrograde	2313 Feb 18 12:01	17°♁19'12			2318 May 22 18:38	0°♁	
opposition	2313 Mar 29 12:31	8°♁18'05	3°13'36	evening set	2318 Jul 07 05:02	29°♁34'14	
greatest brilliancy	2313 Mar 30 03:19	8°♁03'38	-1.3m		2318 Jul 07 21:03	0°♂	
min. Earth dist.	2313 Apr 02 11:54	6°♁44'58	0.65066 AU				
	2313 Apr 23 15:33	30°♁		conjunction	2318 Aug 23 09:55	29°♂44'21	1°08'18
direct	2313 May 09 22:30	28°♁16'13		minimum elong	2318 Aug 23 10:12	29°♂44'47	1°08'17
	2313 May 27 04:52	0°♁			2318 Aug 23 19:46	0°♁	
desc. node	2313 Jun 30 20:56	11°♁22'25		max. Earth dist.	2318 Aug 24 19:24	0°♁37'38	2.67469 AU
	2313 Aug 06 08:49	0°♁		morning rise	2318 Oct 07 02:44	28°♁12'23	
	2313 Sep 23 01:46	0°♁			2318 Oct 09 22:10	0°♁	
	2313 Nov 04 06:24	0°♁			2318 Nov 25 15:46	0°♁	
	2313 Dec 13 17:37	0°≈			2319 Jan 10 20:22	0°♁	
	2314 Jan 20 23:51	0°♁		desc. node	2319 Feb 20 17:39	26°♁46'06	
	2314 Feb 28 05:23	0°♂			2319 Feb 25 15:59	0°♁	
evening set	2314 Mar 27 07:36	20°♂52'03			2319 Apr 12 17:02	0°≈	
	2314 Apr 08 09:15	0°♄			2319 May 31 00:28	0°♁	
asc. node	2314 May 01 20:37	17°♄25'57		retrograde	2319 Aug 17 12:05	29°♁24'06	
	2314 May 19 04:24	0°♂		min. Earth dist.	2319 Sep 14 03:42	24°♁53'26	0.37731 AU
				opposition	2319 Sep 17 15:57	23°♁55'17	-5°-44'-53
conjunction	2314 May 28 17:56	6°♂49'39	0°16'59	greatest brilliancy	2319 Sep 16 22:42	24°♁07'12	-2.9m
minimum elong	2314 May 28 16:51	6°♂47'44	0°16'57	direct	2319 Oct 17 04:46	18°♁56'16	
	2314 Jul 01 00:48	0°♁			2319 Nov 30 17:33	0°♂	
max. Earth dist.	2314 Jul 03 22:35	1°♁58'57	2.53843 AU	asc. node	2319 Dec 22 17:36	10°♂42'06	
morning rise	2314 Jul 23 13:45	15°♁12'22			2320 Jan 25 14:52	0°♄	
	2314 Aug 15 00:35	0°♂			2320 Mar 14 05:44	0°♂	
	2314 Oct 01 02:50	0°♁			2320 Apr 30 22:33	0°♁	
	2314 Nov 19 16:15	0°♁			2320 Jun 17 18:14	0°♂	
	2315 Jan 13 08:09	0°♁			2320 Aug 04 13:15	0°♁	
retrograde	2315 Apr 01 14:17	24°♁38'01		evening set	2320 Aug 13 09:23	5°♁34'47	
opposition	2315 May 08 05:11	16°♁45'40	0°28'08	max. Earth dist.	2320 Sep 15 19:51	26°♁51'02	2.66145 AU
greatest brilliancy	2315 May 08 10:25	16°♁40'50	-1.8m		2320 Sep 20 17:38	0°♁	
min. Earth dist.	2315 May 15 15:39	14°♁01'18	0.55981 AU				
desc. node	2315 May 18 19:48	12°♁53'59		conjunction	2320 Sep 27 19:36	4°♁33'38	0°50'51
direct	2315 Jun 17 06:43	7°♁16'59		minimum elong	2320 Sep 27 20:42	4°♁35'25	0°50'51
	2315 Aug 24 10:04	0°♁			2320 Nov 05 17:54	0°♁	
	2315 Oct 10 17:37	0°♁		morning rise	2320 Nov 11 10:45	3°♁47'02	
	2315 Nov 20 23:14	0°≈			2320 Dec 20 06:56	0°♁	
	2315 Dec 30 04:33	0°♁		desc. node	2321 Jan 07 17:00	12°♁42'53	
	2316 Feb 07 04:36	0°♂			2321 Feb 01 08:10	0°♁	
asc. node	2316 Mar 18 20:01	0°♄32'07			2321 Mar 15 02:35	0°≈	
	2316 Mar 18 02:36	0°♄			2321 Apr 25 00:26	0°♁	
	2316 Apr 28 15:28	0°♂			2321 Jun 04 23:34	0°♂	
evening set	2316 May 23 17:25	17°♂28'25			2321 Jul 18 01:15	0°♄	
	2316 Jun 11 02:41	0°♁			2321 Sep 09 11:02	0°♂	
				retrograde	2321 Oct 16 14:47	8°♂39'09	
conjunction	2316 Jul 15 04:11	22°♁39'47	0°59'14	asc. node	2321 Nov 08 16:57	4°♂48'34	
minimum elong	2316 Jul 15 02:54	22°♁37'41	0°59'14	min. Earth dist.	2321 Nov 14 15:49	2°♂49'08	0.48637 AU
	2316 Jul 26 09:31	0°♂		opposition	2321 Nov 22 17:41	29°♄52'38	0°45'27
max. Earth dist.	2316 Jul 31 16:32	3°♂26'23	2.63308 AU	greatest brilliancy	2321 Nov 22 08:18	0°♂01'12	-2.2m
morning rise	2316 Sep 01 03:48	23°♂40'35			2321 Nov 22 09:37	30°♁	
	2316 Sep 11 02:17	0°♁		direct	2321 Dec 26 09:18	22°♄44'14	
	2316 Oct 28 18:31	0°♁			2322 Feb 01 00:17	0°♂	
	2316 Dec 16 09:50	0°♁			2322 Apr 05 08:15	0°♁	
	2317 Feb 05 01:26	0°♁			2322 May 27 18:45	0°♂	
	2317 Apr 03 22:27	0°♁			2322 Jul 16 13:17	0°♁	
desc. node	2317 Apr 04 18:53	0°♁22'23			2322 Sep 02 11:08	0°♁	
retrograde	2317 May 29 08:15	14°♁26'11		evening set	2322 Sep 19 12:26	10°♁59'04	
opposition	2317 Jun 30 14:04	8°♁31'10	-4°-28'-55	max. Earth dist.	2322 Oct 11 06:43	25°♁15'57	2.59541 AU
greatest brilliancy	2317 Jul 02 06:07	8°♁00'03	-2.5m		2322 Oct 18 09:16	0°♁	

conjunction	2322 Nov 05 03:45	11°♄59'31	0°11'55		2327 Sep 12 10:03	0°♃	
minimum elong	2322 Nov 05 04:12	12°♄00'16	0°11'55		2327 Nov 01 17:44	0°♄	
behind sun begin	2322 Nov 04 14:32	11°♄37'01			2328 Jan 07 18:28	0°♃	
behind sun end	2322 Nov 05 17:51	12°♄23'32		retrograde	2328 Feb 05 05:47	4°♃22'19	
desc. node	2322 Nov 25 16:32	26°♄08'24			2328 Mar 02 09:22	30°♄♄	
	2322 Dec 01 05:06	0°♂		opposition	2328 Mar 15 19:58	25°♄02'41	3°51'04
morning rise	2322 Dec 23 12:16	15°♂49'14		greatest brilliancy	2328 Mar 16 06:11	24°♄52'36	-1.3m
	2323 Jan 12 01:36	0°♂		min. Earth dist.	2328 Mar 18 07:26	24°♄03'59	0.66909 AU
	2323 Feb 21 07:49	0°♂		direct	2328 Apr 26 05:04	15°♄02'09	
	2323 Apr 01 13:11	0°♂			2328 Jun 22 01:58	0°♃	
	2323 May 10 12:07	0°♂		desc. node	2328 Jul 17 12:24	12°♃35'30	
	2323 Jun 19 05:25	0°♂			2328 Aug 16 17:49	0°♄	
	2323 Jul 31 05:11	0°♂			2328 Oct 01 16:04	0°♂	
	2323 Sep 16 20:09	0°♂			2328 Nov 12 07:58	0°♂	
asc. node	2323 Sep 26 14:55	5°♂19'37			2328 Dec 21 14:25	0°♂	
retrograde	2323 Nov 28 00:46	24°♂57'50		greatest brilliancy	2329 Jan 17 04:19	20°♂51'49	1.2m
min. Earth dist.	2324 Jan 01 11:59	17°♂07'43	0.60615 AU		2329 Jan 28 17:56	0°♂	
opposition	2324 Jan 06 17:30	15°♂03'08	3°51'33	evening set	2329 Feb 27 19:14	23°♂41'42	
greatest brilliancy	2324 Jan 05 16:56	15°♂27'32	-1.6m		2329 Mar 07 20:32	0°♂	
direct	2324 Feb 13 09:01	6°♂18'48			2329 Apr 15 20:36	0°♂	
	2324 Apr 29 18:34	0°♃					
	2324 Jun 24 11:18	0°♄		conjunction	2329 May 05 07:07	14°♂31'54	0°-8'-38
	2324 Aug 13 08:06	0°♃		minimum elong	2329 May 05 07:47	14°♂33'10	0°08'38
	2324 Sep 28 19:12	0°♄		behind sun begin	2329 May 04 08:54	13°♂50'50	
desc. node	2324 Oct 12 15:05	9°♄18'32		behind sun end	2329 May 06 06:41	15°♂15'27	
evening set	2324 Oct 29 15:01	21°♄00'02		asc. node	2329 May 18 12:38	24°♂14'16	
	2324 Nov 11 10:49	0°♂			2329 May 26 11:32	0°♂	
max. Earth dist.	2324 Nov 13 06:46	1°♂17'52	2.48276 AU	max. Earth dist.	2329 Jun 19 00:59	16°♂44'39	2.48881 AU
				morning rise	2329 Jul 04 21:11	27°♂44'11	
conjunction	2324 Dec 20 16:35	28°♂28'42	0°-39'-26		2329 Jul 08 04:25	0°♂	
minimum elong	2324 Dec 20 14:48	28°♂25'23	0°39'26		2329 Aug 22 04:25	0°♃	
	2324 Dec 22 17:41	0°♂			2329 Oct 08 16:23	0°♄	
	2325 Jan 31 06:15	0°♂			2329 Nov 28 18:25	0°♃	
morning rise	2325 Feb 17 17:28	13°♂33'08			2330 Jan 29 20:41	0°♄	
	2325 Mar 10 18:04	0°♂		retrograde	2330 Mar 14 22:54	9°♄26'29	
	2325 Apr 18 01:03	0°♂		opposition	2330 Apr 21 17:03	1°♄02'30	1°45'50
	2325 May 27 00:51	0°♂		greatest brilliancy	2330 Apr 22 07:26	0°♄48'50	-1.6m
	2325 Jul 06 16:19	0°♂			2330 Apr 24 10:39	30°♄♄	
asc. node	2325 Aug 13 14:38	26°♂19'26		min. Earth dist.	2330 Apr 27 21:29	28°♃41'35	0.60245 AU
	2325 Aug 19 03:26	0°♂		direct	2330 Jun 01 14:55	21°♃12'21	
	2325 Oct 06 18:27	0°♃		desc. node	2330 Jun 04 11:18	21°♃15'27	
	2325 Dec 18 21:48	0°♄			2330 Jul 11 22:20	0°♄	
retrograde	2326 Jan 01 14:10	1°♄08'48			2330 Sep 06 16:56	0°♂	
	2326 Jan 14 15:38	30°♄♄			2330 Oct 20 21:01	0°♂	
min. Earth dist.	2326 Feb 09 10:10	21°♄51'12	0.67040 AU		2330 Nov 30 02:20	0°♂	
opposition	2326 Feb 10 19:52	21°♄17'28	4°33'56		2331 Jan 07 18:46	0°♂	
greatest brilliancy	2326 Feb 10 11:44	21°♄25'36	-1.2m		2331 Feb 15 08:44	0°♂	
direct	2326 Mar 23 00:45	11°♄40'56			2331 Mar 26 21:15	0°♂	
	2326 May 27 10:23	0°♄		asc. node	2331 Apr 05 11:37	7°♂07'00	
	2326 Jul 22 21:50	0°♃		evening set	2331 May 04 03:01	27°♂54'43	
desc. node	2326 Aug 30 13:21	23°♃45'39			2331 May 07 01:17	0°♂	
	2326 Sep 09 04:34	0°♄			2331 Jun 19 05:00	0°♂	
	2326 Oct 23 06:27	0°♂					
	2326 Dec 03 10:08	0°♂		conjunction	2331 Jun 28 21:41	6°♂33'11	0°47'10
evening set	2326 Dec 21 04:17	13°♂26'52		minimum elong	2331 Jun 28 20:00	6°♂30'21	0°47'08
	2327 Jan 11 14:41	0°♂		max. Earth dist.	2331 Jul 22 13:00	22°♂17'06	2.60229 AU
	2327 Feb 18 18:26	0°♂			2331 Aug 03 07:29	0°♃	
				morning rise	2331 Aug 18 06:27	9°♄42'10	
conjunction	2327 Feb 22 22:39	3°♂18'07	-1°-3'-24		2331 Sep 19 01:29	0°♄	
minimum elong	2327 Feb 22 23:58	3°♂20'42	1°03'26		2331 Nov 06 05:33	0°♃	
max. Earth dist.	2327 Feb 23 01:50	3°♂24'23	2.37028 AU		2331 Dec 26 07:36	0°♄	
	2327 Mar 28 19:43	0°♂			2332 Feb 19 09:53	0°♂	
morning rise	2327 May 04 22:10	28°♂40'34		desc. node	2332 Apr 21 09:56	21°♂59'16	
	2327 May 06 15:59	0°♂		retrograde	2332 May 03 10:44	22°♂50'14	
	2327 Jun 16 02:09	0°♂		opposition	2332 Jun 06 16:54	16°♂03'05	-2°-18'-34
asc. node	2327 Jul 01 14:35	11°♂07'02		greatest brilliancy	2332 Jun 07 18:06	15°♂41'41	-2.2m
	2327 Jul 28 18:24	0°♂		min. Earth dist.	2332 Jun 15 05:23	13°♂10'13	0.48108 AU

direct	2332 Jul 14 07:55	7°♁43'26			2337 Oct 25 05:56	0°♁		
	2332 Sep 17 06:27	0°♁		morning rise	2337 Dec 06 00:06	28°♁24'15		
	2332 Nov 02 10:08	0°♁			2337 Dec 08 07:13	0°♁		
	2332 Dec 13 14:29	0°♁		desc. node	2337 Dec 12 07:35	2°♁47'55		
	2333 Jan 22 19:53	0°♁			2338 Jan 19 13:13	0°♁		
asc. node	2333 Feb 20 11:15	21°♁06'52			2338 Mar 01 06:53	0°♁		
	2333 Mar 04 16:49	0°♁			2338 Apr 10 00:13	0°♁		
	2333 Apr 16 00:52	0°♁			2338 May 19 11:20	0°♁		
	2333 May 30 03:10	0°♁			2338 Jun 28 20:50	0°♁		
evening set	2333 Jun 21 00:24	14°♁28'55			2338 Aug 11 08:46	0°♁		
	2333 Jul 14 19:53	0°♁			2338 Oct 05 02:30	0°♁		
				asc. node	2338 Oct 13 08:33	3°♁08'02		
conjunction	2333 Aug 08 18:22	16°♁03'07	1°08'15	retrograde	2338 Nov 12 18:24	8°♁52'53		
minimum elong	2333 Aug 08 18:03	16°♁02'37	1°08'16	min. Earth dist.	2338 Dec 15 04:37	1°♁46'21	0.56415 AU	
max. Earth dist.	2333 Aug 15 16:18	20°♁28'37	2.66503 AU		2338 Dec 19 17:55	30°♁		
	2333 Aug 30 14:36	0°♁		opposition	2338 Dec 21 19:12	29°♁11'51	3°02'23	
morning rise	2333 Sep 23 07:48	15°♁04'40		greatest brilliancy	2338 Dec 20 17:25	29°♁37'00	-1.8m	
	2333 Oct 16 20:14	0°♁		direct	2339 Jan 27 00:55	20°♁58'38		
	2333 Dec 03 03:01	0°♁			2339 Mar 10 08:30	0°♁		
	2334 Jan 19 11:44	0°♁			2339 May 12 07:31	0°♁		
	2334 Mar 08 14:20	0°♁			2339 Jul 03 18:20	0°♁		
desc. node	2334 Mar 09 09:58	0°♁30'04			2339 Aug 21 15:43	0°♁		
	2334 Apr 28 18:18	0°♁			2339 Oct 06 20:05	0°♁		
retrograde	2334 Jul 17 00:44	27°♁43'37		evening set	2339 Oct 13 19:15	4°♁40'31		
opposition	2334 Aug 16 00:49	22°♁46'57	-6°-50'-7	max. Earth dist.	2339 Oct 30 06:37	15°♁53'39	2.53129 AU	
greatest brilliancy	2334 Aug 16 16:58	22°♁36'15	-2.9m	desc. node	2339 Oct 30 06:25	15°♁53'18		
min. Earth dist.	2334 Aug 18 00:12	22°♁15'35	0.37560 AU		2339 Nov 19 12:20	0°♁		
direct	2334 Sep 15 07:12	17°♁39'27						
	2334 Oct 31 16:06	0°♁		conjunction	2339 Dec 02 01:38	8°♁55'43	0°-19'-22	
	2334 Dec 23 08:32	0°♁		minimum elong	2339 Dec 02 00:46	8°♁54'10	0°19'22	
asc. node	2335 Jan 08 09:11	10°♁16'46			2339 Dec 30 23:37	0°♁		
	2335 Feb 07 10:31	0°♁		morning rise	2340 Jan 24 19:23	18°♁36'18		
	2335 Mar 24 21:55	0°♁			2340 Feb 08 17:58	0°♁		
	2335 May 10 01:28	0°♁			2340 Mar 18 11:29	0°♁		
	2335 Jun 26 00:55	0°♁			2340 Apr 25 23:11	0°♁		
evening set	2335 Jul 30 22:35	22°♁06'15			2340 Jun 04 03:15	0°♁		
	2335 Aug 12 09:53	0°♁			2340 Jul 15 01:46	0°♁		
max. Earth dist.	2335 Sep 07 23:00	16°♁51'44	2.67323 AU		2340 Aug 28 08:31	0°♁		
				asc. node	2340 Aug 30 07:35	1°♁15'05		
conjunction	2335 Sep 14 16:38	21°♁09'31	1°00'24		2340 Oct 19 10:22	0°♁		
minimum elong	2335 Sep 14 17:34	21°♁11'00	1°00'24	retrograde	2340 Dec 19 03:10	17°♁52'49		
	2335 Sep 28 12:03	0°♁		min. Earth dist.	2341 Jan 25 09:29	9°♁06'12	0.65272 AU	
morning rise	2335 Oct 28 23:01	19°♁41'13		opposition	2341 Jan 28 07:43	7°♁55'52	4°29'17	
	2335 Nov 13 17:26	0°♁		greatest brilliancy	2341 Jan 27 16:01	8°♁11'35	-1.3m	
	2335 Dec 28 18:42	0°♁			2341 Feb 21 22:36	30°♁		
desc. node	2336 Jan 25 08:56	18°♁47'00		direct	2341 Mar 08 16:34	28°♁36'09		
	2336 Feb 10 15:19	0°♁			2341 Mar 24 07:59	0°♁		
	2336 Mar 24 11:46	0°♁			2341 Jun 08 15:19	0°♁		
	2336 May 05 19:49	0°♁			2341 Jul 31 09:29	0°♁		
	2336 Jun 18 00:25	0°♁		desc. node	2341 Sep 16 05:06	29°♁38'30		
	2336 Aug 06 04:59	0°♁			2341 Sep 16 18:07	0°♁		
retrograde	2336 Sep 26 01:32	15°♁13'33			2341 Oct 30 14:22	0°♁		
min. Earth dist.	2336 Oct 23 03:07	10°♁14'18	0.43407 AU	evening set	2341 Nov 28 17:11	21°♁02'43		
greatest brilliancy	2336 Oct 30 11:48	7°♁47'32	-2.5m		2341 Dec 10 18:30	0°♁		
opposition	2336 Oct 31 03:05	7°♁34'45	-1°-31'00	max. Earth dist.	2341 Dec 18 21:22	6°♁06'16	2.40344 AU	
asc. node	2336 Nov 25 08:23	1°♁38'00			2342 Jan 19 01:21	0°♁		
direct	2336 Dec 01 22:32	1°♁20'26						
	2337 Feb 22 04:15	0°♁		conjunction	2342 Jan 26 08:30	5°♁40'54	-1°-2'-30	
	2337 Apr 16 00:26	0°♁		minimum elong	2342 Jan 26 07:10	5°♁38'17	1°02'30	
	2337 Jun 04 23:50	0°♁			2342 Feb 26 07:22	0°♁		
	2337 Jul 23 18:58	0°♁		morning rise	2342 Apr 04 18:31	29°♁30'01		
evening set	2337 Sep 04 22:21	27°♁10'54			2342 Apr 05 09:50	0°♁		
	2337 Sep 09 08:02	0°♁			2342 May 14 06:06	0°♁		
max. Earth dist.	2337 Sep 30 20:15	13°♁54'31	2.62746 AU		2342 Jun 23 16:26	0°♁		
				asc. node	2342 Jul 18 06:04	17°♁27'19		
conjunction	2337 Oct 20 16:50	26°♁58'30	0°29'12		2342 Aug 05 12:05	0°♁		
minimum elong	2337 Oct 20 17:45	27°♁00'02	0°29'11		2342 Sep 20 19:28	0°♁		

	2342 Nov 12 22:12	0°♄			2348 Mar 12 22:51	0°♄		
retrograde	2343 Jan 22 13:56	21°♄40'14			2348 Apr 23 16:47	0°♄		
opposition	2343 Mar 03 13:21	12°♄05'40	4°16'37	evening set	2348 Jun 03 12:26	28°♄06'16		
greatest brilliancy	2343 Mar 03 17:04	12°♄01'59	-1.2m		2348 Jun 06 07:56	0°♄		
min. Earth dist.	2343 Mar 04 12:30	11°♄42'40	0.67750 AU		2348 Jul 21 17:19	0°♄		
direct	2343 Apr 13 15:32	2°♄11'27						
	2343 Jul 06 10:48	0°♄		conjunction	2348 Jul 24 10:27	1°♄45'48	1°03'55	
desc. node	2343 Aug 04 03:28	16°♄07'25		minimum elong	2348 Jul 24 09:30	1°♄44'16	1°03'55	
	2343 Aug 26 18:23	0°♄		max. Earth dist.	2348 Aug 06 08:20	10°♄07'00	2.64690 AU	
	2343 Oct 10 17:04	0°♄			2348 Sep 06 09:50	0°♄		
	2343 Nov 21 02:15	0°♄		morning rise	2348 Sep 09 09:00	1°♄53'07		
	2343 Dec 30 06:54	0°♄			2348 Oct 23 21:08	0°♄		
evening set	2344 Jan 31 06:01	25°♄08'03			2348 Dec 10 22:19	0°♄		
	2344 Feb 06 09:41	0°♄			2349 Jan 29 01:40	0°♄		
	2344 Mar 15 10:49	0°♄			2349 Mar 22 14:23	0°♄		
				desc. node	2349 Mar 26 00:38	1°♄48'40		
conjunction	2344 Apr 08 13:39	18°♄43'12	0°-35'-45	retrograde	2349 Jun 14 17:37	28°♄56'57		
minimum elong	2344 Apr 08 16:33	18°♄48'45	0°35'44	opposition	2349 Jul 16 00:12	23°♄29'35	-5°-39'-40	
	2344 Apr 23 08:11	0°♄		greatest brilliancy	2349 Jul 17 15:37	23°♄00'41	-2.6m	
max. Earth dist.	2344 May 29 21:39	27°♄09'20	2.43459 AU	min. Earth dist.	2349 Jul 22 08:27	21°♄38'38	0.40478 AU	
	2344 Jun 02 19:49	0°♄		direct	2349 Aug 18 05:48	17°♄10'53		
asc. node	2344 Jun 04 05:39	1°♄01'08			2349 Oct 03 17:17	0°♄		
morning rise	2344 Jun 13 13:08	7°♄42'16			2349 Nov 23 06:31	0°♄		
	2344 Jul 15 10:24	0°♄			2350 Jan 05 23:26	0°♄		
	2344 Aug 29 12:54	0°♄		asc. node	2350 Jan 25 02:11	13°♄22'59		
	2344 Oct 16 16:50	0°♄			2350 Feb 17 21:51	0°♄		
	2344 Dec 09 09:57	0°♄			2350 Apr 02 16:13	0°♄		
retrograde	2345 Feb 27 00:34	25°♄25'50			2350 May 17 18:42	0°♄		
opposition	2345 Apr 06 15:58	16°♄36'31	2°45'40		2350 Jul 03 03:07	0°♄		
greatest brilliancy	2345 Apr 07 07:52	16°♄21'06	-1.4m	evening set	2350 Jul 16 01:31	8°♄16'18		
min. Earth dist.	2345 Apr 11 10:50	14°♄45'19	0.63608 AU		2350 Aug 19 04:40	0°♄		
direct	2345 May 18 00:11	6°♄36'34		max. Earth dist.	2350 Aug 30 01:22	6°♄54'22	2.67656 AU	
desc. node	2345 Jun 21 03:11	12°♄55'16						
	2345 Jul 29 11:40	0°♄		conjunction	2350 Aug 31 14:44	7°♄53'48	1°06'27	
	2345 Sep 17 02:50	0°♄		minimum elong	2350 Aug 31 15:18	7°♄54'41	1°06'28	
	2345 Oct 29 20:44	0°♄			2350 Oct 05 06:37	0°♄		
	2345 Dec 08 13:11	0°♄		morning rise	2350 Oct 15 00:36	6°♄14'52		
	2346 Jan 15 22:21	0°♄			2350 Nov 20 19:20	0°♄		
	2346 Feb 23 06:08	0°♄			2351 Jan 05 12:40	0°♄		
	2346 Apr 03 12:08	0°♄		desc. node	2351 Feb 10 23:58	24°♄17'37		
evening set	2346 Apr 10 19:49	5°♄28'16			2351 Feb 19 12:11	0°♄		
asc. node	2346 Apr 22 03:52	13°♄51'32			2351 Apr 05 01:27	0°♄		
	2346 May 14 09:31	0°♄			2351 May 20 03:59	0°♄		
					2351 Jul 09 00:07	0°♄		
conjunction	2346 Jun 09 17:14	18°♄34'31	0°29'34	retrograde	2351 Sep 02 11:36	17°♄16'30		
minimum elong	2346 Jun 09 15:40	18°♄31'48	0°29'32	min. Earth dist.	2351 Sep 29 01:18	12°♄48'57	0.39171 AU	
	2346 Jun 26 07:21	0°♄		opposition	2351 Oct 04 23:16	11°♄04'53	-4°-18'-38	
max. Earth dist.	2346 Jul 11 04:23	10°♄04'13	2.56336 AU	greatest brilliancy	2351 Oct 03 21:55	11°♄23'31	-2.8m	
morning rise	2346 Aug 02 07:17	24°♄46'12		direct	2351 Nov 03 22:49	5°♄45'28		
	2346 Aug 10 06:56	0°♄		asc. node	2351 Dec 13 01:38	14°♄21'26		
	2346 Sep 26 04:28	0°♄			2352 Jan 15 06:00	0°♄		
	2346 Nov 14 02:29	0°♄			2352 Mar 07 07:54	0°♄		
	2347 Jan 05 13:01	0°♄			2352 Apr 25 07:18	0°♄		
	2347 Mar 14 15:02	0°♄			2352 Jun 12 17:45	0°♄		
retrograde	2347 Apr 12 13:06	4°♄27'23			2352 Jul 30 20:00	0°♄		
desc. node	2347 May 09 02:14	0°♄07'00		evening set	2352 Aug 21 14:27	13°♄43'24		
	2347 May 09 11:11	30°♄			2352 Sep 16 03:10	0°♄		
opposition	2347 May 18 10:46	26°♄55'34	0°-26'-2	max. Earth dist.	2352 Sep 21 06:01	3°♄17'34	2.65161 AU	
greatest brilliancy	2347 May 18 15:36	26°♄51'13	-1.9m					
min. Earth dist.	2347 May 26 11:21	24°♄02'30	0.53325 AU	conjunction	2352 Oct 06 00:26	12°♄51'10	0°43'45	
direct	2347 Jun 26 20:40	17°♄45'21		minimum elong	2352 Oct 06 01:32	12°♄52'58	0°43'45	
	2347 Aug 12 18:28	0°♄			2352 Nov 01 02:44	0°♄		
	2347 Oct 03 11:59	0°♄		morning rise	2352 Nov 20 01:34	12°♄40'41		
	2347 Nov 14 18:46	0°♄			2352 Dec 15 11:31	0°♄		
	2347 Dec 24 11:36	0°♄		desc. node	2352 Dec 28 23:02	9°♄20'26		
	2348 Feb 01 19:04	0°♄			2353 Jan 27 05:37	0°♄		
asc. node	2348 Mar 09 02:30	27°♄10'11			2353 Mar 09 14:05	0°♄		

	2353 Apr 18 23:47	0°♄		min. Earth dist.	2358 Feb 17 20:19	29°♁25'10	0.67582 AU
	2353 May 29 05:56	0°♃		direct	2358 Mar 31 00:02	19°♁27'48	
	2353 Jul 09 22:02	0°♂			2358 May 17 01:00	0°♃	
	2353 Aug 26 02:42	0°♁			2358 Jul 16 21:03	0°♁	
retrograde	2353 Oct 27 00:37	20°♁42'18		desc. node	2358 Aug 20 19:54	20°♁56'37	
asc. node	2353 Oct 30 00:05	20°♁38'22			2358 Sep 04 01:13	0°♃	
min. Earth dist.	2353 Nov 26 07:03	14°♁24'10	0.51535 AU		2358 Oct 18 09:59	0°♂	
greatest brilliancy	2353 Dec 03 05:03	11°♁48'11	-2.0m		2358 Nov 28 15:45	0°♂	
opposition	2353 Dec 04 00:14	11°♁30'07	1°45'38	evening set	2359 Jan 04 04:20	27°♂55'44	
direct	2354 Jan 07 14:53	3°♁55'59			2359 Jan 06 20:10	0°♃	
	2354 Mar 28 04:50	0°♁			2359 Feb 13 23:10	0°♄	
	2354 May 21 23:09	0°♁					
	2354 Jul 11 12:27	0°♃		conjunction	2359 Mar 11 11:36	20°♄10'11	0°-57'-3
	2354 Aug 28 17:52	0°♁		minimum elong	2359 Mar 11 14:25	20°♄15'44	0°57'03
evening set	2354 Sep 28 03:15	19°♁38'46			2359 Mar 23 23:47	0°♃	
	2354 Oct 13 18:23	0°♃		max. Earth dist.	2359 Apr 24 16:22	24°♃33'46	2.38380 AU
max. Earth dist.	2354 Oct 17 18:59	2°♃41'46	2.57445 AU		2359 May 01 19:31	0°♂	
				morning rise	2359 May 20 17:59	14°♂14'12	
conjunction	2354 Nov 14 12:12	21°♃35'55	0°00'50		2359 Jun 11 05:08	0°♁	
minimum elong	2354 Nov 14 12:14	21°♃35'57	0°00'50	asc. node	2359 Jun 21 20:36	7°♁39'32	
behind sun begin	2354 Nov 13 15:58	21°♃00'53			2359 Jul 23 19:23	0°♁	
behind sun end	2354 Nov 15 08:30	22°♃11'04			2359 Sep 07 03:51	0°♁	
desc. node	2354 Nov 15 21:36	22°♃33'47			2359 Oct 26 10:04	0°♃	
	2354 Nov 26 13:12	0°♂			2359 Dec 24 12:06	0°♁	
morning rise	2355 Jan 03 10:14	27°♂10'15		retrograde	2360 Feb 13 07:14	12°♁12'24	
	2355 Jan 07 06:49	0°♂		opposition	2360 Mar 23 14:48	3°♁02'29	3°30'33
	2355 Feb 16 08:53	0°♃		greatest brilliancy	2360 Mar 24 03:44	2°♁49'47	-1.3m
	2355 Mar 27 09:51	0°♄		min. Earth dist.	2360 Mar 26 22:12	1°♁44'38	0.66024 AU
	2355 May 05 04:07	0°♃			2360 Mar 31 11:09	30°♃00'40	
	2355 Jun 13 14:57	0°♂		direct	2360 May 04 01:40	23°♃00'40	
	2355 Jul 25 01:49	0°♁			2360 Jun 09 15:56	0°♁	
	2355 Sep 08 21:59	0°♁		desc. node	2360 Jul 07 18:34	11°♁50'41	
asc. node	2355 Sep 16 23:41	4°♁46'23			2360 Aug 10 07:13	0°♃	
	2355 Nov 10 23:24	0°♁			2360 Sep 26 05:35	0°♂	
retrograde	2355 Dec 06 06:19	3°♁53'17			2360 Nov 07 05:45	0°♂	
	2355 Dec 30 00:00	30°♃00'00			2360 Dec 16 15:22	0°♃	
min. Earth dist.	2356 Jan 10 18:51	25°♁41'49	0.62532 AU		2361 Jan 23 20:26	0°♄	
greatest brilliancy	2356 Jan 14 07:03	24°♁17'52	-1.5m		2361 Mar 03 00:07	0°♃	
opposition	2356 Jan 15 05:10	23°♁55'47	4°10'29	evening set	2361 Mar 15 13:05	9°♃44'36	
direct	2356 Feb 22 13:20	14°♁57'17			2361 Apr 11 01:07	0°♄	
	2356 Apr 20 10:18	0°♁		asc. node	2361 May 08 20:12	20°♄39'34	
	2356 Jun 18 13:29	0°♃					
	2356 Aug 08 06:51	0°♁		conjunction	2361 May 18 23:17	28°♄01'27	0°06'33
	2356 Sep 24 01:13	0°♃		minimum elong	2361 May 18 22:49	28°♄00'36	0°06'33
desc. node	2356 Oct 02 20:38	5°♃53'35		behind sun begin	2361 May 17 23:09	27°♄17'51	
	2356 Nov 06 18:34	0°♂		behind sun end	2361 May 19 22:28	28°♄43'17	
evening set	2356 Nov 08 22:54	1°♂32'42			2361 May 21 17:01	0°♁	
max. Earth dist.	2356 Nov 23 15:48	12°♂05'11	2.45400 AU	max. Earth dist.	2361 Jun 28 00:54	26°♁17'51	2.51692 AU
	2356 Dec 18 00:43	0°♂			2361 Jul 03 10:16	0°♁	
				morning rise	2361 Jul 15 19:23	8°♁24'59	
conjunction	2357 Jan 02 01:41	11°♂18'31	0°-49'-47		2361 Aug 17 08:34	0°♁	
minimum elong	2357 Jan 01 23:37	11°♂14'36	0°49'47		2361 Oct 03 13:05	0°♃	
	2357 Jan 26 11:18	0°♃			2361 Nov 22 14:37	0°♁	
morning rise	2357 Mar 05 14:16	29°♃46'49			2362 Jan 18 09:56	0°♃	
	2357 Mar 05 20:59	0°♄		retrograde	2362 Mar 24 17:05	18°♃23'21	
greatest brilliancy	2357 Mar 15 22:35	7°♄54'59	1.2m	opposition	2362 Apr 30 21:36	10°♃15'56	1°03'13
	2357 Apr 13 02:07	0°♃		greatest brilliancy	2362 May 01 07:50	10°♃06'21	-1.7m
	2357 May 21 23:56	0°♂		min. Earth dist.	2362 May 07 19:50	7°♃40'39	0.57998 AU
	2357 Jul 01 12:16	0°♁		desc. node	2362 May 25 17:15	2°♃15'31	
asc. node	2357 Aug 03 22:45	23°♁27'43		direct	2362 Jun 10 10:17	0°♃36'01	
	2357 Aug 13 15:06	0°♁			2362 Aug 29 23:02	0°♂	
	2357 Sep 30 01:50	0°♁			2362 Oct 14 17:05	0°♂	
	2357 Nov 28 15:27	0°♃			2362 Nov 24 11:24	0°♃	
retrograde	2358 Jan 09 04:50	8°♃58'02			2363 Jan 02 10:33	0°♄	
	2358 Feb 16 09:25	30°♃00'00			2363 Feb 10 05:21	0°♃	
opposition	2358 Feb 18 09:47	29°♁11'43	4°30'51		2363 Mar 21 21:49	0°♄	
greatest brilliancy	2358 Feb 18 05:58	29°♁15'32	-1.2m	asc. node	2363 Mar 26 20:04	3°♄38'56	

	2363 May 02 05:19	0°♁			2368 Mar 18 10:36	0°♁		
evening set	2363 May 16 02:27	9°♁46'36			2368 Apr 28 21:48	0°♁		
	2363 Jun 14 11:40	0°♁			2368 Jun 09 15:04	0°♁		
conjunction	2363 Jul 08 22:49	16°♁23'50	0°54'47	retrograde	2368 Oct 08 01:22	29°♁24'44		
minimum elong	2363 Jul 08 21:19	16°♁21'21	0°54'46	min. Earth dist.	2368 Nov 05 04:29	23°♁57'57	0.46257 AU	
max. Earth dist.	2363 Jul 28 15:12	29°♁20'42	2.62026 AU	opposition	2368 Nov 13 09:07	21°♁04'56	0°-7'-58	
	2363 Jul 29 15:18	0°♁		greatest brilliancy	2369 May 12 07:39	19°♁07'54	-4.3m	
morning rise	2363 Aug 26 21:51	18°♁16'16		asc. node	2368 Nov 15 17:05	20°♁16'04		
	2363 Sep 14 07:27	0°♁		direct	2368 Dec 16 04:37	14°♁19'46		
	2363 Nov 01 03:49	0°♁			2369 Feb 11 03:04	0°♁		
	2363 Dec 20 07:52	0°♁			2369 Apr 09 08:36	0°♁		
	2364 Feb 10 10:56	0°♁			2369 May 30 14:15	0°♁		
desc. node	2364 Apr 11 16:10	28°♁20'08			2369 Jul 18 22:05	0°♁		
	2364 Apr 16 21:44	0°♁			2369 Sep 04 16:40	0°♁		
retrograde	2364 May 17 12:09	5°♁00'41		evening set	2369 Sep 13 04:58	5°♁27'50		
	2364 Jun 15 12:57	30°♁		max. Earth dist.	2369 Oct 06 16:58	20°♁45'38	2.61074 AU	
opposition	2364 Jun 19 15:27	28°♁41'51	-3°-31'-26		2369 Oct 20 15:41	0°♁		
greatest brilliancy	2364 Jun 21 02:56	28°♁13'01	-2.3m					
min. Earth dist.	2364 Jun 27 22:26	26°♁00'51	0.45195 AU	conjunction	2369 Oct 29 09:17	5°♁51'07	0°19'30	
direct	2364 Jul 25 22:41	21°♁00'05		minimum elong	2369 Oct 29 09:58	5°♁52'16	0°19'29	
	2364 Sep 02 04:50	0°♁		desc. node	2369 Dec 02 13:59	29°♁16'39		
	2364 Oct 24 23:19	0°♁			2369 Dec 03 14:50	0°♁		
	2364 Dec 06 17:41	0°♁		morning rise	2369 Dec 15 17:19	8°♁30'04		
	2365 Jan 16 18:18	0°♁			2370 Jan 14 16:21	0°♁		
asc. node	2365 Feb 10 18:28	18°♁12'36			2370 Feb 24 03:58	0°♁		
	2365 Feb 27 03:51	0°♁			2370 Apr 04 14:28	0°♁		
	2365 Apr 10 21:07	0°♁			2370 May 13 18:06	0°♁		
	2365 May 25 06:08	0°♁			2370 Jun 22 16:27	0°♁		
evening set	2365 Jun 30 09:40	23°♁42'19			2370 Aug 04 02:55	0°♁		
	2365 Jul 10 03:10	0°♁			2370 Sep 22 12:34	0°♁		
conjunction	2365 Aug 17 05:19	24°♁25'17	1°08'46	asc. node	2370 Oct 03 15:16	5°♁30'15		
minimum elong	2365 Aug 17 05:21	24°♁25'21	1°08'46	retrograde	2370 Nov 21 15:04	18°♁43'25		
max. Earth dist.	2365 Aug 20 23:28	26°♁49'01	2.67139 AU	min. Earth dist.	2370 Dec 25 05:06	11°♁12'15	0.58854 AU	
	2365 Aug 25 23:21	0°♁		greatest brilliancy	2370 Dec 30 00:13	9°♁18'52	-1.6m	
morning rise	2365 Oct 01 05:57	23°♁04'39		opposition	2370 Dec 31 02:08	8°♁53'20	3°33'55	
	2365 Oct 12 02:58	0°♁		direct	2371 Feb 06 04:02	0°♁21'53		
	2365 Nov 28 02:07	0°♁			2371 May 05 03:20	0°♁		
	2366 Jan 13 18:07	0°♁			2371 Jun 28 07:22	0°♁		
desc. node	2366 Feb 27 15:12	28°♁50'18			2371 Aug 16 18:37	0°♁		
	2366 Mar 01 10:48	0°♁		desc. node	2371 Oct 02 04:04	0°♁		
	2366 Apr 18 04:06	0°♁		evening set	2371 Oct 20 12:29	12°♁23'04		
	2366 Jun 10 07:10	0°♁		max. Earth dist.	2371 Oct 23 04:25	14°♁12'26		
retrograde	2366 Aug 04 02:09	15°♁50'50			2371 Nov 07 08:12	24°♁42'01	2.50517 AU	
min. Earth dist.	2366 Sep 02 07:47	11°♁03'01	0.37239 AU		2371 Nov 14 21:11	0°♁		
opposition	2366 Sep 03 10:27	10°♁45'13	-6°-30'-52	conjunction	2371 Dec 12 20:33	20°♁06'06	0°-31'-2	
greatest brilliancy	2366 Sep 03 06:55	10°♁47'35	-2.9m	minimum elong	2371 Dec 12 19:08	20°♁03'32	0°31'01	
direct	2366 Oct 03 01:10	5°♁50'59			2371 Dec 26 07:08	0°♁		
	2366 Dec 12 01:20	0°♁			2372 Feb 03 22:55	0°♁		
asc. node	2366 Dec 29 17:17	10°♁10'14		morning rise	2372 Feb 07 08:12	2°♁36'30		
	2367 Jan 30 21:44	0°♁			2372 Mar 13 13:22	0°♁		
	2367 Mar 18 20:17	0°♁			2372 Apr 20 22:07	0°♁		
	2367 May 04 18:05	0°♁			2372 May 29 22:42	0°♁		
	2367 Jun 21 03:42	0°♁			2372 Jul 09 15:18	0°♁		
	2367 Aug 07 17:51	0°♁		asc. node	2372 Aug 20 14:27	28°♁52'50		
evening set	2367 Aug 08 06:01	0°♁19'14			2372 Aug 22 07:23	0°♁		
max. Earth dist.	2367 Sep 13 04:08	23°♁07'50	2.66772 AU		2372 Oct 10 21:39	0°♁		
conjunction	2367 Sep 22 18:21	29°♁16'26	0°55'14	retrograde	2372 Dec 26 21:06	26°♁01'26		
minimum elong	2367 Sep 22 19:25	29°♁18'07	0°55'14	min. Earth dist.	2373 Feb 03 01:22	16°♁57'10	0.66383 AU	
	2367 Sep 23 21:30	0°♁		opposition	2373 Feb 05 03:29	16°♁07'00	4°33'38	
morning rise	2367 Nov 06 04:10	28°♁07'25		greatest brilliancy	2373 Feb 04 15:54	16°♁18'36	-1.3m	
	2367 Nov 09 00:30	0°♁		direct	2373 Mar 17 00:37	6°♁37'22		
	2367 Dec 23 19:17	0°♁			2373 Jun 01 02:42	0°♁		
desc. node	2368 Jan 15 14:30	15°♁38'29		desc. node	2373 Jul 25 20:50	0°♁		
	2368 Feb 05 05:17	0°♁			2373 Sep 06 10:57	26°♁30'50		
					2373 Sep 11 19:13	0°♁		

	2373 Oct 25 19:57	0°♁			2378 Aug 05 14:05	0°♁	
	2373 Dec 06 01:05	0°♁		morning rise	2378 Aug 11 13:55	3°♁54'16	
evening set	2373 Dec 11 00:27	3°♁43'56			2378 Sep 21 08:22	0°♁	
max. Earth dist.	2374 Jan 12 22:33	28°♁56'11	2.38022 AU		2378 Nov 08 18:30	0°♁	
	2374 Jan 14 07:24	0°♁			2378 Dec 29 15:55	0°♁	
					2379 Feb 26 00:35	0°♁	
conjunction	2374 Feb 10 11:59	21°♁18'22	-1°-4'-49	retrograde	2379 Apr 24 12:40	15°♁01'25	
minimum elong	2374 Feb 10 11:59	21°♁18'23	1°04'50	desc. node	2379 Apr 29 07:09	14°♁53'01	
	2374 Feb 21 12:22	0°♁		opposition	2379 May 29 13:28	7°♁53'20	-1°-27'-47
	2374 Mar 31 13:57	0°♁		greatest brilliancy	2379 May 30 05:53	7°♁38'58	-2.1m
morning rise	2374 Apr 21 22:48	16°♁37'56		min. Earth dist.	2379 Jun 06 23:15	4°♁57'26	0.50479 AU
	2374 May 09 09:22	0°♁			2379 Jun 25 21:32	30°♁	
	2374 Jun 18 18:09	0°♁		direct	2379 Jul 07 02:28	29°♁08'11	
asc. node	2374 Jul 08 14:26	14°♁11'17			2379 Jul 18 11:10	0°♁	
	2374 Jul 31 09:58	0°♁			2379 Sep 24 23:51	0°♁	
	2374 Sep 15 05:11	0°♁			2379 Nov 08 01:41	0°♁	
	2374 Nov 05 08:32	0°♁			2379 Dec 18 11:52	0°♁	
retrograde	2375 Jan 30 08:10	29°♁24'12			2380 Jan 27 05:56	0°♁	
opposition	2375 Mar 11 03:34	19°♁57'23	4°02'56	asc. node	2380 Feb 28 11:23	23°♁57'26	
greatest brilliancy	2375 Mar 11 11:00	19°♁50'01	-1.2m		2380 Mar 07 17:36	0°♁	
min. Earth dist.	2375 Mar 12 22:53	19°♁14'31	0.67418 AU		2380 Apr 18 17:36	0°♁	
direct	2375 Apr 21 10:55	9°♁59'06			2380 Jun 01 13:27	0°♁	
	2375 Jun 28 10:35	0°♁		evening set	2380 Jun 13 16:00	8°♁04'51	
desc. node	2375 Jul 25 09:52	14°♁12'53			2380 Jul 17 01:39	0°♁	
	2375 Aug 21 00:43	0°♁					
	2375 Oct 05 13:40	0°♁		conjunction	2380 Aug 02 07:08	10°♁29'26	1°06'58
	2375 Nov 16 03:48	0°♁		minimum elong	2380 Aug 02 06:33	10°♁28'30	1°06'58
	2375 Dec 25 10:02	0°♁		max. Earth dist.	2380 Aug 11 20:17	16°♁37'36	2.65790 AU
	2376 Feb 01 13:17	0°♁			2380 Sep 01 18:37	0°♁	
evening set	2376 Feb 16 06:45	11°♁38'30		morning rise	2380 Sep 17 09:49	9°♁56'17	
greatest brilliancy	2376 Mar 04 11:52	25°♁12'04	1.2m		2380 Oct 19 02:17	0°♁	
	2376 Mar 10 14:53	0°♁			2380 Dec 05 16:16	0°♁	
	2376 Apr 18 12:52	0°♁			2381 Jan 22 17:12	0°♁	
					2381 Mar 13 07:51	0°♁	
conjunction	2376 Apr 24 00:42	4°♁08'57	0°-20'-26	desc. node	2381 Mar 16 07:01	1°♁43'53	
minimum elong	2376 Apr 24 02:25	4°♁12'11	0°20'26		2381 May 08 07:42	0°♁	
asc. node	2376 May 25 12:53	27°♁27'34		retrograde	2381 Jul 02 14:29	15°♁02'47	
	2376 May 29 01:03	0°♁		opposition	2381 Aug 01 23:46	9°♁58'04	-6°-32'-40
max. Earth dist.	2376 Jun 11 06:58	9°♁29'54	2.46488 AU	greatest brilliancy	2381 Aug 03 05:43	9°♁37'33	-2.8m
morning rise	2376 Jun 26 00:30	19°♁52'54		min. Earth dist.	2381 Aug 06 05:31	8°♁48'35	0.38536 AU
	2376 Jul 10 15:29	0°♁		direct	2381 Sep 02 09:23	4°♁24'23	
	2376 Aug 24 14:40	0°♁			2381 Nov 12 00:32	0°♁	
	2376 Oct 11 06:58	0°♁			2381 Dec 29 03:08	0°♁	
	2376 Dec 02 04:59	0°♁		asc. node	2382 Jan 15 09:17	11°♁36'22	
	2377 Feb 09 08:56	0°♁			2382 Feb 11 12:23	0°♁	
retrograde	2377 Mar 07 21:58	3°♁47'06			2382 Mar 28 02:15	0°♁	
	2377 Apr 01 10:27	30°♁			2382 May 12 16:55	0°♁	
opposition	2377 Apr 15 02:51	25°♁11'03	2°12'41		2382 Jun 28 08:33	0°♁	
greatest brilliancy	2377 Apr 15 18:24	24°♁56'08	-1.5m	evening set	2382 Jul 24 15:27	16°♁43'09	
min. Earth dist.	2377 Apr 20 16:52	23°♁02'42	0.61874 AU		2382 Aug 14 13:45	0°♁	
direct	2377 May 26 07:00	15°♁15'24		max. Earth dist.	2382 Sep 04 06:36	13°♁09'07	2.67582 AU
desc. node	2377 Jun 11 08:46	16°♁48'34					
	2377 Jul 19 19:20	0°♁		conjunction	2382 Sep 08 16:30	15°♁57'41	1°03'21
	2377 Sep 10 18:12	0°♁		minimum elong	2382 Sep 08 17:17	15°♁58'56	1°03'21
	2377 Oct 24 07:09	0°♁			2382 Sep 30 15:58	0°♁	
	2377 Dec 03 07:03	0°♁		morning rise	2382 Oct 22 23:03	14°♁20'58	
	2378 Jan 10 19:59	0°♁			2382 Nov 16 00:51	0°♁	
	2378 Feb 18 06:32	0°♁			2382 Dec 31 09:27	0°♁	
	2378 Mar 29 14:59	0°♁		desc. node	2383 Feb 01 06:25	21°♁30'15	
asc. node	2378 Apr 12 11:34	10°♁17'54			2383 Feb 13 17:28	0°♁	
evening set	2378 Apr 24 08:24	18°♁59'33			2383 Mar 29 05:58	0°♁	
	2378 May 09 14:35	0°♁			2383 May 11 13:14	0°♁	
					2383 Jun 25 13:28	0°♁	
conjunction	2378 Jun 20 21:15	29°♁30'56	0°40'23		2383 Aug 23 09:24	0°♁	
minimum elong	2378 Jun 20 19:31	29°♁27'59	0°40'22	retrograde	2383 Sep 16 23:10	4°♁03'10	
	2378 Jun 21 14:18	0°♁			2383 Oct 11 09:52	30°♁	
max. Earth dist.	2378 Jul 17 23:22	17°♁44'27	2.58584 AU	min. Earth dist.	2383 Oct 13 12:30	29°♁21'55	0.41304 AU

opposition	2383 Oct 20 21:29	27°♃02'29	-2°-41'-43	desc. node	2388 Sep 23 02:25	2°♄34'09	
greatest brilliancy	2383 Oct 19 22:54	27°♃20'24	-2.6m		2388 Nov 02 01:52	0°♂	
direct	2383 Nov 20 20:56	21°♃13'52		evening set	2388 Nov 19 20:30	12°♂43'23	
asc. node	2383 Dec 03 08:01	22°♃13'50		max. Earth dist.	2388 Dec 06 03:04	24°♂38'35	2.42561 AU
	2383 Dec 30 16:08	0°♂			2388 Dec 13 08:04	0°♂	
	2384 Feb 28 12:06	0°♄					
	2384 Apr 19 08:29	0°♃		conjunction	2389 Jan 15 08:09	25°♂03'55	0°-58'-7
	2384 Jun 07 13:58	0°♄		minimum elong	2389 Jan 15 06:14	25°♂00'15	0°58'07
	2384 Jul 26 01:25	0°♃			2389 Jan 21 17:21	0°≈	
evening set	2384 Aug 29 19:08	21°♃52'47			2389 Mar 01 01:06	0°♂	
	2384 Sep 11 12:22	0°♄		morning rise	2389 Mar 22 08:05	16°♂46'27	
max. Earth dist.	2384 Sep 26 18:32	9°♄50'18	2.63928 AU		2389 Apr 08 04:23	0°♃	
					2389 May 17 00:30	0°♂	
conjunction	2384 Oct 14 07:59	21°♄18'07	0°35'39		2389 Jun 26 10:09	0°♄	
minimum elong	2384 Oct 14 09:01	21°♄19'49	0°35'39	asc. node	2389 Jul 25 05:36	20°♄23'52	
	2384 Oct 27 11:43	0°♄			2389 Aug 08 06:43	0°♃	
morning rise	2384 Nov 28 23:39	21°♄55'24			2389 Sep 23 21:21	0°♄	
	2384 Dec 10 17:13	0°♂			2389 Nov 17 17:36	0°♃	
desc. node	2384 Dec 19 05:01	5°♂54'09		retrograde	2390 Jan 16 20:22	16°♃44'40	
	2385 Jan 22 05:14	0°♂		opposition	2390 Feb 25 23:22	7°♃04'27	4°23'49
	2385 Mar 04 05:53	0°≈		greatest brilliancy	2390 Feb 25 23:48	7°♃04'00	-1.2m
	2385 Apr 13 06:08	0°♂		min. Earth dist.	2390 Feb 26 06:15	6°♃57'35	0.67803 AU
	2385 May 23 00:31	0°♃			2390 Mar 18 01:58	30°♄♂	
	2385 Jul 02 19:46	0°♂		direct	2390 Apr 07 21:21	27°♄14'18	
	2385 Aug 16 08:29	0°♄			2390 Apr 30 06:50	0°♃	
asc. node	2385 Oct 20 08:22	29°♄58'29			2390 Jul 10 07:10	0°♄	
	2385 Oct 20 11:13	0°♃		desc. node	2390 Aug 11 01:03	18°♄22'23	
retrograde	2385 Nov 05 18:50	1°♃48'47			2390 Aug 29 16:30	0°♄	
	2385 Nov 21 13:35	30°♄♂			2390 Oct 13 10:36	0°♂	
min. Earth dist.	2385 Dec 07 05:47	25°♄03'57	0.54297 AU		2390 Nov 23 19:34	0°♂	
greatest brilliancy	2385 Dec 13 09:41	22°♄41'58	-1.9m		2391 Jan 02 00:59	0°≈	
opposition	2385 Dec 14 10:06	22°♄18'30	2°34'01	evening set	2391 Jan 19 02:41	13°≈22'26	
direct	2386 Jan 18 23:36	14°♄21'45			2391 Feb 09 04:02	0°♂	
	2386 Mar 18 04:28	0°♃			2391 Mar 19 04:35	0°♃	
	2386 May 15 17:55	0°♄					
	2386 Jul 06 08:04	0°♃		conjunction	2391 Mar 28 00:07	6°♃53'16	0°-46'-13
	2386 Aug 23 23:17	0°♄		minimum elong	2391 Mar 28 03:26	6°♃59'44	0°46'12
evening set	2386 Oct 06 22:58	28°♄33'11			2391 Apr 27 00:24	0°♂	
	2386 Oct 09 03:04	0°♄		max. Earth dist.	2391 May 18 11:00	16°♂06'08	2.41046 AU
max. Earth dist.	2386 Oct 24 15:43	10°♄27'38	2.55144 AU	morning rise	2391 Jun 04 05:04	28°♂24'25	
desc. node	2386 Nov 06 03:36	19°♄01'20			2391 Jun 06 09:43	0°♄	
	2386 Nov 21 21:39	0°♂		asc. node	2391 Jun 12 05:19	4°♄12'05	
					2391 Jul 18 22:32	0°♃	
conjunction	2386 Nov 24 06:24	1°♂39'59	0°-10'-43		2391 Sep 02 01:26	0°♄	
minimum elong	2386 Nov 24 05:56	1°♂39'09	0°10'44		2391 Oct 20 13:08	0°♃	
behind sun begin	2386 Nov 23 13:56	1°♂10'57			2391 Dec 14 19:52	0°♄	
behind sun end	2386 Nov 24 21:56	2°♂07'23		retrograde	2392 Feb 21 14:02	20°♄10'20	
	2387 Jan 02 12:39	0°♂		opposition	2392 Mar 31 13:57	11°♄11'15	3°05'51
morning rise	2387 Jan 15 02:56	9°♂20'40		greatest brilliancy	2392 Apr 01 04:50	10°♄56'44	-1.3m
	2387 Feb 11 11:06	0°≈		min. Earth dist.	2392 Apr 04 17:19	9°♄34'31	0.64807 AU
	2387 Mar 22 08:01	0°♂		direct	2392 May 12 00:52	1°♄09'41	
	2387 Apr 29 22:19	0°♃		desc. node	2392 Jun 28 00:25	12°♄13'02	
	2387 Jun 08 04:23	0°♂			2392 Aug 03 03:02	0°♄	
	2387 Jul 19 05:53	0°♄			2392 Sep 20 12:25	0°♂	
	2387 Sep 01 23:14	0°♃			2392 Nov 01 23:13	0°♂	
asc. node	2387 Sep 07 07:39	3°♃20'08			2392 Dec 11 13:17	0°≈	
	2387 Oct 26 12:45	0°♄			2393 Jan 18 20:38	0°♂	
retrograde	2387 Dec 14 06:44	12°♄28'43			2393 Feb 26 02:10	0°♃	
min. Earth dist.	2388 Jan 19 19:15	3°♄57'18	0.64167 AU	evening set	2393 Mar 30 17:24	25°♃05'51	
opposition	2388 Jan 23 09:42	2°♄30'54	4°23'28		2393 Apr 06 05:08	0°♂	
greatest brilliancy	2388 Jan 22 14:56	2°♄49'40	-1.4m	asc. node	2393 Apr 29 04:12	17°♂04'52	
	2388 Jan 29 20:01	30°♄♂			2393 May 16 22:46	0°♄	
direct	2388 Mar 02 08:26	23°♃19'59					
	2388 Apr 07 12:49	0°♄		conjunction	2393 May 31 15:30	10°♄28'41	0°20'22
	2388 Jun 12 04:36	0°♃		minimum elong	2393 May 31 14:15	10°♄26'28	0°20'21
	2388 Aug 03 01:40	0°♄			2393 Jun 28 17:14	0°♃	
	2388 Sep 19 05:26	0°♄		max. Earth dist.	2393 Jul 05 19:31	4°♃50'12	2.54348 AU

morning rise	2393 Jul 25 23:44	18°♄23'21			2398 Nov 23 03:22	0°♃		
	2393 Aug 12 14:41	0°♈		asc. node	2398 Dec 20 01:38	11°♃48'28		
	2393 Sep 28 13:45	0°♎			2399 Jan 22 02:25	0°♄		
	2393 Nov 16 20:58	0°♊			2399 Mar 12 08:34	0°♁		
	2394 Jan 09 16:58	0°♋			2399 Apr 29 06:38	0°♄		
retrograde	2394 Apr 04 01:32	27°♋44'53			2399 Jun 16 04:40	0°♈		
opposition	2394 May 10 14:24	19°♋56'08	0°14'26		2399 Aug 03 01:16	0°♎		
greatest brilliancy	2394 Apr 29 06:49	23°♋48'09	-1.8m	evening set	2399 Aug 16 11:53	8°♎28'46		
desc. node	2394 May 15 23:41	17°♋57'12		max. Earth dist.	2399 Sep 18 12:14	29°♎29'35	2.65990 AU	
min. Earth dist.	2394 May 18 04:51	17°♋09'01	0.55507 AU		2399 Sep 19 07:11	0°♊		
direct	2394 Jun 19 14:50	10°♋30'20						
	2394 Aug 20 14:37	0°♌		conjunction	2399 Sep 30 21:18	7°♊27'47	0°48'56	
	2394 Oct 08 00:58	0°♍		minimum elong	2399 Sep 30 22:24	7°♊29'35	0°48'56	
	2394 Nov 18 14:00	0°♎			2399 Nov 04 08:52	0°♋		
	2394 Dec 27 21:59	0°♏		morning rise	2399 Nov 14 13:48	6°♋46'32		
	2395 Feb 04 22:40	0°♐			2399 Dec 18 22:51	0°♌		
	2395 Mar 16 20:10	0°♑		desc. node	2400 Jan 05 20:41	12°♌21'17		
asc. node	2395 Mar 17 02:28	0°♒11'39			2400 Jan 31 00:16	0°♍		
	2395 Apr 27 07:56	0°♁			2400 Mar 12 17:57	0°♎		
evening set	2395 May 27 10:03	20°♁55'58			2400 Apr 22 13:46	0°♏		
	2395 Jun 09 17:55	0°♂			2400 Jun 02 08:24	0°♐		
					2400 Jul 14 22:17	0°♑		
conjunction	2395 Jul 18 12:49	25°♂47'17	1°00'42		2400 Sep 03 16:39	0°♒		
minimum elong	2395 Jul 18 11:38	25°♂45'19	1°00'40	retrograde	2400 Oct 19 02:59	12°♒22'00		
	2395 Jul 24 23:34	0°♈		asc. node	2400 Nov 06 00:18	10°♒01'27		
max. Earth dist.	2395 Aug 03 10:43	6°♈08'58	2.63614 AU	min. Earth dist.	2400 Nov 17 09:57	6°♒27'17	0.49186 AU	
morning rise	2395 Sep 04 06:48	26°♈35'47		opposition	2400 Nov 25 11:28	3°♒30'01	1°02'19	
	2395 Sep 09 15:07	0°♎		greatest brilliancy	2400 Nov 24 22:55	3°♒41'32	-2.2m	
	2395 Oct 27 05:31	0°♊			2400 Dec 05 18:13	30°♒♄		
	2395 Dec 14 16:47	0°♋		direct	2400 Dec 29 07:08	26°♒16'41		
	2396 Feb 02 21:42	0°♌			2401 Jan 23 16:59	0°♁		
	2396 Mar 29 21:51	0°♍			2401 Apr 01 22:11	0°♂		
desc. node	2396 Apr 01 22:04	1°♍24'21			2401 May 24 22:36	0°♈		
retrograde	2396 Jun 01 19:03	18°♍22'24			2401 Jul 13 22:35	0°♎		
opposition	2396 Jul 03 21:08	12°♍32'22	-4°-45'-57		2401 Aug 30 23:49	0°♊		
greatest brilliancy	2396 Jul 05 13:53	12°♍00'55	-2.5m	evening set	2401 Sep 21 16:10	13°♊57'36		
min. Earth dist.	2396 Jul 11 08:47	10°♍14'37	0.42460 AU	max. Earth dist.	2401 Oct 12 22:12	27°♊56'06	2.59166 AU	
direct	2396 Aug 07 13:12	5°♍34'54			2401 Oct 16 00:36	0°♋		
	2396 Oct 14 07:06	0°♌						
	2396 Nov 29 01:42	0°♏		conjunction	2401 Nov 07 10:19	15°♋07'32	0°08'57	
	2397 Jan 10 07:11	0°♐		minimum elong	2401 Nov 07 10:39	15°♋08'06	0°08'57	
asc. node	2397 Feb 01 02:02	15°♐34'45		behind sun begin	2401 Nov 06 17:45	14°♋39'16		
	2397 Feb 21 09:55	0°♑		behind sun end	2401 Nov 08 03:32	15°♋36'57		
	2397 Apr 05 14:42	0°♒		desc. node	2401 Nov 22 19:02	25°♋42'48		
	2397 May 20 07:47	0°♁			2401 Nov 28 22:34	0°♌		
	2397 Jul 05 09:58	0°♈		morning rise	2401 Dec 26 01:24	19°♌15'25		
evening set	2397 Jul 09 11:34	2°♈36'51			2402 Jan 09 20:34	0°♍		
	2397 Aug 21 08:41	0°♎			2402 Feb 19 03:34	0°♏		
					2402 Mar 30 08:54	0°♐		
conjunction	2397 Aug 25 12:28	2°♎38'46	1°07'53		2402 May 08 06:44	0°♑		
minimum elong	2397 Aug 25 12:48	2°♎39'19	1°07'53		2402 Jun 16 21:14	0°♒		
max. Earth dist.	2397 Aug 26 06:11	3°♎06'58	2.67537 AU		2402 Jul 28 14:39	0°♁		
	2397 Oct 07 11:15	0°♊			2402 Sep 13 10:38	0°♂		
morning rise	2397 Oct 09 03:22	1°♊04'01		asc. node	2402 Sep 23 23:35	5°♂55'16		
	2397 Nov 23 04:31	0°♋		retrograde	2402 Nov 30 02:42	28°♂01'09		
	2398 Jan 08 07:31	0°♌		min. Earth dist.	2403 Jan 03 19:11	20°♂07'09	0.60997 AU	
desc. node	2398 Feb 17 21:31	26°♌39'39		opposition	2403 Jan 08 21:22	18°♂05'57	3°57'49	
	2398 Feb 22 23:13	0°♍		greatest brilliancy	2403 Jan 07 21:03	18°♂30'05	-1.5m	
	2398 Apr 09 15:46	0°♎		direct	2403 Feb 15 16:58	9°♂18'39		
	2398 May 27 00:16	0°♏			2403 Apr 26 20:58	0°♈		
	2398 Jul 26 16:24	0°♐			2403 Jun 22 13:52	0°♎		
retrograde	2398 Aug 21 04:49	4°♐11'02			2403 Aug 11 18:37	0°♊		
	2398 Sep 16 11:09	30°♐♋			2403 Sep 27 10:11	0°♋		
min. Earth dist.	2398 Sep 17 11:42	29°♐43'09	0.37935 AU	desc. node	2403 Oct 10 17:50	8°♋56'03		
opposition	2398 Sep 21 13:28	28°♐35'13	-5°-27'-5	evening set	2403 Nov 02 02:04	24°♋18'11		
greatest brilliancy	2398 Sep 20 17:57	28°♐48'48	-2.8m		2403 Nov 10 04:46	0°♌		
direct	2398 Oct 21 01:47	23°♐33'28		max. Earth dist.	2403 Nov 16 12:38	4°♌29'18	2.47716 AU	

	2403 Dec 21 13:34	0°☾		max. Earth dist.	2408 Jun 21 09:27	19°♁59'07	2.49418 AU
conjunction	2403 Dec 24 12:29	2°☾11'58	0°-42'-13	morning rise	2408 Jul 05 20:40	0°☾	
minimum elong	2403 Dec 24 10:37	2°☾08'29	0°42'12		2408 Jul 07 14:29	1°☾11'39	
	2404 Jan 30 03:15	0°♁			2408 Aug 19 17:43	0°♁	
morning rise	2404 Feb 22 05:17	17°♁55'40			2408 Oct 06 01:18	0°♁	
	2404 Mar 08 15:21	0°♁			2408 Nov 25 17:12	0°♁	
	2404 Apr 15 21:49	0°♁		retrograde	2409 Jan 24 13:56	0°♁	
greatest brilliancy	2404 May 08 22:01	17°♁50'13	1.2m	opposition	2409 Mar 17 05:50	12°♁25'49	
	2404 May 24 20:09	0°♁		greatest brilliancy	2409 Apr 23 22:39	4°♁04'50	1°34'28
	2404 Jul 04 08:47	0°♁		min. Earth dist.	2409 Apr 24 11:58	3°♁52'13	-1.6m
asc. node	2404 Aug 10 22:59	26°♁13'20			2409 Apr 30 07:26	1°♁40'27	0.59846 AU
	2404 Aug 16 14:30	0°☾		desc. node	2409 May 04 22:05	30°♁	
	2404 Oct 03 15:45	0°♁		direct	2409 Jun 01 14:30	24°♁18'24	
	2404 Dec 08 04:49	0°♁			2409 Jun 03 20:17	24°♁16'26	
retrograde	2405 Jan 03 12:27	3°♁57'35			2409 Jul 05 13:30	0°♁	
	2405 Jan 27 23:45	30°♁			2409 Sep 03 17:15	0°♁	
opposition	2405 Feb 12 19:07	24°♁07'14	4°33'28		2409 Oct 18 10:04	0°☾	
greatest brilliancy	2405 Feb 12 11:52	24°♁14'29	-1.2m		2409 Nov 27 20:18	0°♁	
min. Earth dist.	2405 Feb 11 13:26	24°♁36'55	0.67173 AU		2410 Jan 05 14:44	0°♁	
direct	2405 Mar 25 02:39	14°♁29'09			2410 Feb 13 05:04	0°♁	
	2405 May 23 05:17	0°♁		asc. node	2410 Mar 24 16:52	0°♁	
	2405 Jul 20 01:16	0°♁			2410 Apr 02 20:12	6°♁47'10	
desc. node	2405 Aug 27 17:31	23°♁34'05		evening set	2410 May 04 19:25	0°♁	
	2405 Sep 06 17:25	0°♁			2410 May 06 23:37	1°♁32'58	
	2405 Oct 21 00:12	0°♁			2410 Jun 16 21:18	0°☾	
	2405 Dec 01 06:43	0°☾		conjunction	2410 Jul 01 09:25	9°☾47'59	0°49'21
evening set	2405 Dec 24 06:15	17°☾25'24		minimum elong	2410 Jul 01 07:46	9°☾45'13	0°49'21
	2406 Jan 09 12:41	0°♁		max. Earth dist.	2410 Jul 24 08:06	25°☾02'04	2.60579 AU
	2406 Feb 16 16:40	0°♁			2410 Jul 31 21:53	0°♁	
conjunction	2406 Feb 26 14:47	7°♁50'50	-1°-2'-21	morning rise	2410 Aug 20 11:30	12°♁41'38	
minimum elong	2406 Feb 26 16:31	7°♁54'15	1°02'21		2410 Sep 16 13:51	0°♁	
max. Earth dist.	2406 Mar 13 00:21	19°♁13'10	2.37031 AU		2410 Nov 03 14:48	0°♁	
	2406 Mar 26 17:17	0°♁			2410 Dec 23 09:44	0°♁	
	2406 May 04 12:05	0°♁		desc. node	2411 Feb 15 11:36	0°♁	
morning rise	2406 May 08 15:12	3°♁08'04		retrograde	2411 Apr 19 13:30	24°♁32'00	
	2406 Jun 13 20:04	0°♁		opposition	2411 May 07 13:54	26°♁22'19	
asc. node	2406 Jun 28 20:43	10°♁47'51		greatest brilliancy	2411 Jun 10 14:02	19°♁40'36	-2°-36'-3
	2406 Jul 26 09:15	0°☾		min. Earth dist.	2411 Jun 11 18:10	19°♁16'52	-2.2m
	2406 Sep 09 19:54	0°♁		direct	2411 Jun 19 01:45	16°♁49'19	0.47549 AU
	2406 Oct 29 15:41	0°♁			2411 Jul 17 23:55	11°♁27'14	
	2406 Dec 31 20:49	0°♁			2411 Sep 14 02:36	0°☾	
retrograde	2407 Feb 07 05:39	7°♁10'18			2411 Oct 31 13:16	0°♁	
	2407 Mar 13 08:19	30°♁		asc. node	2411 Dec 12 01:55	0°♁	
opposition	2407 Mar 18 19:42	27°♁52'22	3°45'16		2412 Jan 21 10:23	0°♁	
greatest brilliancy	2407 Mar 19 06:24	27°♁41'50	-1.3m		2412 Feb 18 18:40	20°♁52'29	
min. Earth dist.	2407 Mar 21 11:16	26°♁49'49	0.66782 AU		2412 Mar 02 08:15	0°♁	
direct	2407 Apr 29 06:20	17°♁51'30			2412 Apr 13 16:08	0°♁	
	2407 Jun 18 12:10	0°♁		evening set	2412 May 27 17:47	0°☾	
desc. node	2407 Jul 15 16:10	12°♁54'00			2412 Jun 23 08:58	17°☾36'24	
	2407 Aug 14 21:52	0°♁			2412 Jul 12 09:44	0°♁	
	2407 Sep 30 06:32	0°♁		conjunction	2412 Aug 10 22:12	18°♁59'48	1°08'31
	2407 Nov 11 03:17	0°☾		minimum elong	2412 Aug 10 21:59	18°♁59'28	1°08'30
	2407 Dec 20 12:09	0°♁		max. Earth dist.	2412 Aug 17 04:47	23°♁00'31	2.66635 AU
greatest brilliancy	2408 Jan 06 09:05	13°♁11'51	1.2m		2412 Aug 28 03:49	0°♁	
	2408 Jan 27 16:28	0°♁		morning rise	2412 Sep 25 09:03	17°♁56'39	
evening set	2408 Mar 03 07:46	28°♁04'51			2412 Oct 14 08:44	0°♁	
	2408 Mar 05 18:38	0°♁			2412 Nov 30 14:00	0°♁	
	2408 Apr 13 17:21	0°♁			2413 Jan 16 19:08	0°♁	
conjunction	2408 May 08 13:11	18°♁32'24	0°-4'-46	desc. node	2413 Mar 05 13:18	0°☾	
minimum elong	2408 May 08 13:33	18°♁33'04	0°04'47		2413 Mar 06 12:36	0°☾36'03	
behind sun begin	2408 May 07 11:53	17°♁45'49			2413 Apr 24 16:43	0°♁	
behind sun end	2408 May 09 15:13	19°♁20'16		retrograde	2413 Jul 01 02:57	0°♁	
asc. node	2408 May 15 20:09	23°♁53'02			2413 Jul 20 23:33	2°♁24'21	
	2408 May 24 06:14	0°♁		opposition	2413 Aug 09 19:45	30°♁	
					2413 Aug 19 23:50	27°♁27'33	-6°-49'-42

greatest brilliancy	2413 Aug 20 12:44	27°≈18'59	-2.9m	max. Earth dist.	2418 Nov 01 01:53	18°ℓ42'37	2.52668 AU
min. Earth dist.	2413 Aug 21 10:26	27°≈04'36	0.37422 AU		2418 Nov 17 06:38	0°♁	
direct	2413 Sep 19 03:42	22°≈23'58					
	2413 Oct 24 12:28	0°♁		conjunction	2418 Dec 04 12:42	12°♁16'46	0°-22'-24
	2413 Dec 19 20:30	0°♁		minimum elong	2418 Dec 04 11:42	12°♁14'58	0°22'24
asc. node	2414 Jan 05 16:56	10°♁36'38			2418 Dec 28 19:50	0°♁	
	2414 Feb 04 13:47	0°♁		morning rise	2419 Jan 27 18:11	22°♁27'34	
	2414 Mar 22 06:35	0°♁			2419 Feb 06 15:11	0°≈	
	2414 May 07 12:17	0°♁			2419 Mar 17 08:42	0°♁	
	2414 Jun 23 12:47	0°♁			2419 Apr 24 19:23	0°♁	
evening set	2414 Aug 02 01:31	25°♁00'51			2419 Jun 02 21:15	0°♁	
	2414 Aug 09 22:38	0°♁			2419 Jul 13 15:44	0°♁	
max. Earth dist.	2414 Sep 09 11:26	19°♁23'21	2.67238 AU		2419 Aug 26 14:21	0°♁	
				asc. node	2419 Aug 28 14:01	1°♁16'54	
conjunction	2414 Sep 16 18:11	24°♁02'15	0°59'02		2419 Oct 16 12:41	0°♁	
minimum elong	2414 Sep 16 19:09	24°♁03'47	0°59'01	retrograde	2419 Dec 22 03:16	20°♁48'44	
	2414 Sep 26 01:41	0°♁		min. Earth dist.	2420 Jan 28 15:01	11°♁58'22	0.65528 AU
morning rise	2414 Oct 31 01:15	22°♁37'25		opposition	2420 Jan 31 09:06	10°♁52'15	4°31'12
	2414 Nov 11 07:39	0°♁		greatest brilliancy	2420 Jan 30 18:14	11°♁07'08	-1.3m
	2414 Dec 26 08:49	0°♁		direct	2420 Mar 10 21:10	1°♁30'16	
desc. node	2415 Jan 22 11:42	18°♁28'27			2420 Jun 05 05:01	0°♁	
	2415 Feb 08 04:22	0°♁			2420 Jul 28 16:03	0°♁	
	2415 Mar 22 22:33	0°≈		desc. node	2420 Sep 13 08:22	29°♁21'50	
	2415 May 04 02:13	0°♁			2420 Sep 14 07:37	0°♁	
	2415 Jun 15 20:48	0°♁			2420 Oct 28 08:00	0°♁	
	2415 Aug 02 09:12	0°♁		evening set	2420 Dec 01 11:25	24°♁41'27	
retrograde	2415 Sep 29 21:12	19°♁20'52			2420 Dec 08 14:48	0°♁	
min. Earth dist.	2415 Oct 27 05:13	14°♁16'00	0.43937 AU	max. Earth dist.	2420 Dec 23 12:19	11°♁13'03	2.39871 AU
opposition	2415 Nov 04 06:00	11°♁33'25	-1°-9'-44		2421 Jan 16 23:14	0°≈	
greatest brilliancy	2415 Nov 03 17:46	11°♁43'47	-2.5m				
asc. node	2415 Nov 23 16:57	6°♁17'08		conjunction	2421 Jan 29 15:31	9°≈52'40	-1°-3'-27
direct	2415 Dec 06 05:12	5°♁13'05		minimum elong	2421 Jan 29 14:26	9°≈50'33	1°03'28
	2416 Feb 19 06:44	0°♁			2421 Feb 24 05:47	0°♁	
	2416 Apr 13 01:13	0°♁			2421 Apr 03 07:47	0°♁	
	2416 Jun 02 07:27	0°♁		morning rise	2421 Apr 08 13:44	4°♁06'26	
	2416 Jul 21 06:02	0°♁			2421 May 12 02:35	0°♁	
	2416 Sep 06 21:36	0°♁			2421 Jun 21 10:19	0°♁	
evening set	2416 Sep 07 00:04	0°♁03'56		asc. node	2421 Jul 15 13:54	17°♁13'27	
max. Earth dist.	2416 Oct 02 10:31	16°♁30'33	2.62445 AU		2421 Aug 03 01:54	0°♁	
					2421 Sep 18 01:57	0°♁	
conjunction	2416 Oct 22 19:47	29°♁56'59	0°26'36		2421 Nov 09 06:49	0°♁	
minimum elong	2416 Oct 22 20:38	29°♁58'24	0°26'36	retrograde	2422 Jan 24 12:50	24°♁29'29	
	2416 Oct 22 21:36	0°♁		opposition	2422 Mar 05 12:50	14°♁56'16	4°12'51
	2416 Dec 06 00:26	0°♁		greatest brilliancy	2422 Mar 05 17:19	14°♁51'50	-1.2m
morning rise	2416 Dec 08 07:36	1°♁35'57		min. Earth dist.	2422 Mar 06 16:14	14°♁29'06	0.67724 AU
desc. node	2416 Dec 09 11:11	2°♁24'00		direct	2422 Apr 15 17:11	5°♁01'00	
	2417 Jan 17 07:12	0°♁			2422 Jul 02 23:18	0°♁	
	2417 Feb 27 00:52	0°≈		desc. node	2422 Aug 01 07:19	16°♁09'55	
	2417 Apr 07 17:20	0°♁			2422 Aug 24 02:44	0°♁	
	2417 May 17 02:26	0°♁			2422 Oct 08 08:50	0°♁	
	2417 Jun 26 07:39	0°♁			2422 Nov 18 21:48	0°♁	
	2417 Aug 08 08:45	0°♁			2422 Dec 28 04:22	0°≈	
	2417 Sep 29 17:27	0°♁		evening set	2423 Feb 03 19:00	29°≈34'48	
asc. node	2417 Oct 10 15:30	4°♁37'16			2423 Feb 04 07:45	0°♁	
retrograde	2417 Nov 15 00:24	12°♁09'40			2423 Mar 14 08:27	0°♁	
min. Earth dist.	2417 Dec 17 16:05	4°♁58'39	0.56924 AU				
greatest brilliancy	2417 Dec 23 01:38	2°♁52'23	-1.7m	conjunction	2423 Apr 13 02:38	23°♁04'23	0°-32'-9
opposition	2417 Dec 24 03:54	2°♁26'44	3°12'11	minimum elong	2423 Apr 13 05:18	23°♁09'30	0°32'08
	2417 Dec 30 14:57	30°♁			2423 Apr 22 04:37	0°♁	
direct	2418 Jan 29 14:54	24°♁09'39			2423 Jun 01 14:20	0°♁	
	2418 Mar 03 16:34	0°♁		asc. node	2423 Jun 02 13:07	0°♁41'16	
	2418 May 09 01:01	0°♁		max. Earth dist.	2423 Jun 03 02:58	1°♁06'19	2.44041 AU
	2418 Jul 01 00:21	0°♁		morning rise	2423 Jun 17 13:06	11°♁26'54	
	2418 Aug 19 03:25	0°♁			2423 Jul 14 02:22	0°♁	
	2418 Oct 04 11:33	0°♁			2423 Aug 28 01:18	0°♁	
evening set	2418 Oct 16 00:54	7°♁45'18			2423 Oct 14 22:54	0°♁	
desc. node	2418 Oct 27 09:47	15°♁29'47			2423 Dec 06 21:39	0°♁	

retrograde	2424 Mar 01 04:16	28°♁20'42		2429 Feb 15 07:58	0°♄	
opposition	2424 Apr 08 18:58	19°♁33'43	2°36'27	2429 Mar 31 04:39	0°♅	
greatest brilliancy	2424 Apr 09 10:38	19°♁18'36	-1.4m	2429 May 15 07:53	0°♆	
min. Earth dist.	2424 Apr 13 18:07	17°♁38'47	0.63312 AU	2429 Jun 30 16:31	0°♇	
direct	2424 May 20 03:46	9°♁34'25		evening set	2429 Jul 18 05:37	11°♈12'45
desc. node	2424 Jun 18 06:09	14°♁18'36			2429 Aug 16 18:18	0°♉
	2424 Jul 25 18:41	0°♊		max. Earth dist.	2429 Aug 31 11:36	9°♊21'29 2.67672 AU
	2424 Sep 14 11:13	0°♋				
	2424 Oct 27 13:08	0°♌		conjunction	2429 Sep 02 15:36	10°♊44'11 1°05'41
	2424 Dec 06 09:05	0°♍		minimum elong	2429 Sep 02 16:13	10°♊45'10 1°05'40
	2425 Jan 13 19:33	0°♎			2429 Oct 02 20:37	0°♋
	2425 Feb 21 03:10	0°♏		morning rise	2429 Oct 17 00:31	9°♋04'41
	2425 Apr 01 08:04	0°♐			2429 Nov 18 09:30	0°♌
evening set	2425 Apr 13 23:55	9°♐27'02			2430 Jan 03 02:07	0°♍
asc. node	2425 Apr 19 11:37	13°♐30'28		desc. node	2430 Feb 08 04:04	24°♌04'48
	2425 May 12 03:45	0°♑			2430 Feb 16 23:17	0°♍
					2430 Apr 02 07:30	0°♎
conjunction	2425 Jun 12 10:35	22°♑03'25	0°32'34		2430 May 16 22:34	0°♏
minimum elong	2425 Jun 12 08:56	22°♑00'34	0°32'33		2430 Jul 04 02:05	0°♐
	2425 Jun 23 23:36	0°♒		retrograde	2430 Sep 05 23:35	21°♐55'51
max. Earth dist.	2425 Jul 13 00:28	12°♒53'01	2.56782 AU	min. Earth dist.	2430 Oct 02 10:17	17°♐26'37 0.39504 AU
morning rise	2425 Aug 04 15:29	27°♒52'59		opposition	2430 Oct 08 16:20	15°♐35'15 -3°-56'-6
	2425 Aug 07 21:04	0°♓		greatest brilliancy	2430 Oct 07 15:17	15°♐53'57 -2.8m
	2425 Sep 23 15:57	0°♈		direct	2430 Nov 07 21:07	10°♐10'55
	2425 Nov 11 09:05	0°♉		asc. node	2430 Dec 10 07:59	16°♐19'58
	2426 Jan 02 06:12	0°♊			2431 Jan 10 17:35	0°♑
	2426 Mar 07 00:09	0°♋			2431 Mar 05 04:39	0°♒
retrograde	2426 Apr 15 07:13	7°♋45'14			2431 Apr 23 13:09	0°♓
desc. node	2426 May 06 04:28	5°♋01'58			2431 Jun 11 03:29	0°♔
opposition	2426 May 21 01:06	0°♌17'56	0°-41'-33		2431 Jul 29 08:05	0°♕
greatest brilliancy	2426 May 21 08:52	0°♌10'59	-1.9m	evening set	2431 Aug 24 16:22	16°♕35'47
	2426 May 21 21:08	30°♌			2431 Sep 14 17:06	0°♖
min. Earth dist.	2426 May 29 03:59	27°♌23'41	0.52797 AU	max. Earth dist.	2431 Sep 23 22:08	5°♖55'19 2.64959 AU
direct	2426 Jun 29 08:20	21°♌11'53				
	2426 Aug 07 04:48	0°♍		conjunction	2431 Oct 09 01:59	15°♖45'08 0°41'34
	2426 Sep 30 12:07	0°♎		minimum elong	2431 Oct 09 03:04	15°♖46'54 0°41'34
	2426 Nov 12 06:44	0°♏			2431 Oct 30 18:15	0°♗
	2426 Dec 22 04:00	0°♐		morning rise	2431 Nov 23 05:21	15°♗42'19
	2427 Jan 30 13:02	0°♑			2431 Dec 14 04:13	0°♘
asc. node	2427 Mar 07 11:13	26°♑53'03		desc. node	2431 Dec 27 02:33	8°♘57'04
	2427 Mar 11 16:49	0°♒			2432 Jan 25 22:52	0°♙
	2427 Apr 22 09:52	0°♓			2432 Mar 07 07:11	0°♚
	2427 Jun 04 23:45	0°♔			2432 Apr 16 15:46	0°♛
evening set	2427 Jun 07 00:29	1°♔22'01			2432 May 26 19:00	0°♜
	2427 Jul 20 07:57	0°♕			2432 Jul 07 03:45	0°♝
					2432 Aug 22 06:47	0°♞
conjunction	2427 Jul 27 16:04	4°♕46'02	1°04'54	asc. node	2432 Oct 27 08:13	24°♞10'48
minimum elong	2427 Jul 27 15:14	4°♕44'41	1°04'53	retrograde	2432 Oct 29 10:37	24°♞12'44
max. Earth dist.	2427 Aug 09 01:27	12°♕46'14	2.64918 AU	min. Earth dist.	2432 Nov 28 21:38	17°♞50'30 0.52052 AU
	2427 Sep 04 23:26	0°♗		opposition	2432 Dec 06 13:41	14°♞57'03 1°59'43
morning rise	2427 Sep 12 10:35	4°♗44'49		greatest brilliancy	2432 Dec 05 16:32	15°♞17'01 -2.0m
	2427 Oct 22 09:24	0°♘		direct	2433 Jan 10 09:45	7°♞18'38
	2427 Dec 09 07:41	0°♙			2433 Mar 24 06:50	0°♟
	2428 Jan 27 03:45	0°♚			2433 May 19 00:04	0°♠
	2428 Mar 18 18:34	0°♛			2433 Jul 08 20:51	0°♡
desc. node	2428 Mar 23 04:15	2°♛23'58			2433 Aug 26 06:30	0°♢
	2428 May 25 19:49	0°♜		evening set	2433 Sep 30 07:16	22°♢38'07
retrograde	2428 Jun 18 14:14	3°♜15'08			2433 Oct 11 10:06	0°♣
	2428 Jul 12 00:56	30°♜		max. Earth dist.	2433 Oct 19 10:26	5°♣22'04 2.57035 AU
opposition	2428 Jul 19 16:40	27°♜53'03	-5°-53'-59	desc. node	2433 Nov 13 00:58	22°♣09'20
greatest brilliancy	2428 Jul 21 07:05	27°♜25'20	-2.7m			
min. Earth dist.	2428 Jul 25 17:22	26°♜09'23	0.40044 AU	conjunction	2433 Nov 16 19:38	24°♣46'35 0°-2'-15
direct	2428 Aug 21 11:44	21°♜44'08		minimum elong	2433 Nov 16 19:34	24°♣46'29 0°02'15
	2428 Sep 26 23:40	0°♝		behind sun begin	2433 Nov 15 23:15	24°♣11'12
	2428 Nov 19 20:07	0°♞		behind sun end	2433 Nov 17 15:53	25°♣21'48
	2429 Jan 03 03:55	0°♟			2433 Nov 24 07:12	0°♤
asc. node	2429 Jan 22 09:35	13°♟22'36			2434 Jan 05 02:17	0°♥

morning rise	2434 Jan 06 01:45	0°☾43'06		opposition	2439 Mar 26 15:22	5°♌54'36	3°23'38
	2434 Feb 14 05:02	0°♌		greatest brilliancy	2439 Mar 27 04:42	5°♌41'34	-1.3m
	2434 Mar 25 05:56	0°♋		min. Earth dist.	2439 Mar 30 03:19	4°♌32'31	0.65810 AU
	2434 May 02 23:12	0°♍			2439 Apr 11 17:32	30°♌♍	
	2434 Jun 11 07:43	0°♎		direct	2439 May 07 03:28	25°♌♍52'36	
	2434 Jul 22 13:39	0°♏			2439 Jun 03 11:36	0°♌	
	2434 Sep 05 21:08	0°♐		desc. node	2439 Jul 05 21:36	12°♌25'25	
asc. node	2434 Sep 14 07:54	5°♐05'46			2439 Aug 08 05:22	0°♌	
	2434 Nov 03 18:05	0°♑			2439 Sep 24 17:10	0°♌	
retrograde	2434 Dec 08 07:49	6°♑52'48			2439 Nov 05 22:53	0°♌	
	2435 Jan 09 12:47	30°♑♒			2439 Dec 15 11:15	0°♌	
min. Earth dist.	2435 Jan 13 01:17	28°♑37'27	0.62863 AU		2440 Jan 22 17:30	0°♋	
greatest brilliancy	2435 Jan 16 10:06	27°♑16'56	-1.4m		2440 Feb 29 21:13	0°♍	
opposition	2435 Jan 17 07:38	26°♑55'26	4°15'03	evening set	2440 Mar 19 01:15	14°♍05'39	
direct	2435 Feb 24 18:54	17°♑54'18			2440 Apr 08 21:23	0°♋	
	2435 Apr 16 14:40	0°♑		asc. node	2440 May 06 04:47	20°♋20'01	
	2435 Jun 16 12:11	0°♒			2440 May 19 11:43	0°♏	
	2435 Aug 06 15:56	0°♓					
	2435 Sep 22 15:46	0°♐		conjunction	2440 May 21 23:58	1°♏48'31	0°10'10
desc. node	2435 Sep 30 23:52	5°♐33'15		minimum elong	2440 May 21 23:15	1°♏47'15	0°10'09
	2435 Nov 05 12:44	0°♑		behind sun begin	2440 May 21 03:26	1°♏11'35	
evening set	2435 Nov 12 11:17	4°♑55'12		behind sun end	2440 May 22 19:05	2°♏22'53	
max. Earth dist.	2435 Nov 27 02:32	15°♑27'08	2.44871 AU	max. Earth dist.	2440 Jun 29 21:34	29°♏09'42	2.52215 AU
	2435 Dec 16 21:14	0°♒			2440 Jul 01 02:52	0°♑	
				morning rise	2440 Jul 18 07:25	11°♑40'45	
conjunction	2436 Jan 05 23:43	15°♒07'46	0°-52'-3		2440 Aug 14 22:35	0°♑	
minimum elong	2436 Jan 05 21:40	15°♒03'53	0°52'03		2440 Sep 30 23:26	0°♒	
	2436 Jan 25 09:04	0°♌			2440 Nov 19 17:26	0°♓	
	2436 Mar 03 18:58	0°♋			2441 Jan 14 09:02	0°♐	
greatest brilliancy	2436 Mar 05 00:02	0°♋57'07	1.2m	retrograde	2441 Mar 27 02:13	21°♐25'46	
morning rise	2436 Mar 09 04:35	4°♋14'51		opposition	2441 May 03 04:41	13°♐21'46	0°50'34
	2436 Apr 10 23:21	0°♍		greatest brilliancy	2441 May 03 13:14	13°♐13'49	-1.7m
	2436 May 19 19:29	0°♎		min. Earth dist.	2441 May 10 06:59	10°♐43'20	0.57547 AU
	2436 Jun 29 05:00	0°♏		desc. node	2441 May 22 20:55	6°♐36'46	
asc. node	2436 Aug 01 05:48	23°♏17'06		direct	2441 Jun 12 16:35	3°♐43'53	
	2436 Aug 11 03:02	0°♐			2441 Aug 26 14:28	0°♑	
	2436 Sep 27 03:20	0°♑			2441 Oct 12 03:08	0°♒	
	2436 Nov 23 12:09	0°♒			2441 Nov 22 03:27	0°♌	
retrograde	2437 Jan 11 03:55	11°♒47'54			2441 Dec 31 04:51	0°♋	
opposition	2437 Feb 20 09:25	2°♒02'52	4°29'13		2442 Feb 08 00:06	0°♍	
greatest brilliancy	2437 Feb 20 06:32	2°♒05'44	-1.2m		2442 Mar 19 16:00	0°♎	
min. Earth dist.	2437 Feb 20 00:18	2°♒11'57	0.67647 AU	asc. node	2442 Mar 24 02:38	3°♎17'40	
	2437 Feb 25 13:44	30°♒♑			2442 Apr 29 22:22	0°♏	
direct	2437 Apr 02 01:43	22°♑17'34		evening set	2442 May 18 21:17	13°♏19'55	
	2437 May 11 09:11	0°♒			2442 Jun 12 03:21	0°♑	
	2437 Jul 13 19:21	0°♓					
desc. node	2437 Aug 17 22:49	20°♓49'00		conjunction	2442 Jul 11 08:28	19°♓33'53	0°56'33
	2437 Sep 01 11:38	0°♐		minimum elong	2442 Jul 11 07:03	19°♓31'32	0°56'33
	2437 Oct 16 02:15	0°♑			2442 Jul 27 05:38	0°♑	
	2437 Nov 26 11:30	0°♒		max. Earth dist.	2442 Jul 30 08:13	2°♑01'38	2.62369 AU
	2438 Jan 04 17:54	0°♌		morning rise	2442 Aug 29 01:03	21°♑11'58	
evening set	2438 Jan 07 10:38	2°♌06'03			2442 Sep 11 20:19	0°♒	
	2438 Feb 11 21:40	0°♋			2442 Oct 29 14:24	0°♓	
					2442 Dec 17 13:24	0°♐	
conjunction	2438 Mar 15 02:51	24°♋39'41	0°-54'-53		2443 Feb 07 01:56	0°♑	
minimum elong	2438 Mar 15 05:53	24°♋45'39	0°54'52	desc. node	2443 Apr 09 19:39	29°♑52'18	
	2438 Mar 21 21:55	0°♍			2443 Apr 10 03:57	0°♒	
	2438 Apr 29 16:18	0°♎		retrograde	2443 May 21 18:50	8°♒44'39	
max. Earth dist.	2438 Apr 30 04:07	0°♎22'29	2.38823 AU	opposition	2443 Jun 23 17:38	2°♒30'54	-3°-49'-10
morning rise	2438 May 24 01:49	18°♎19'32		greatest brilliancy	2443 Jun 25 06:58	2°♒00'45	-2.4m
	2438 Jun 08 23:43	0°♏			2443 Jul 01 13:18	30°♒♑	
asc. node	2438 Jun 19 05:14	7°♏22'57		min. Earth dist.	2443 Jul 01 20:59	29°♑54'00	0.44673 AU
	2438 Jul 21 10:55	0°♐		direct	2443 Jul 29 17:19	24°♑56'38	
	2438 Sep 04 14:55	0°♑			2443 Aug 26 16:38	0°♒	
	2438 Oct 23 11:55	0°♒			2443 Oct 22 16:46	0°♌	
	2438 Dec 19 21:42	0°♓			2443 Dec 05 01:23	0°♋	
retrograde	2439 Feb 15 07:57	15°♓02'31			2444 Jan 15 06:51	0°♍	

asc. node	2444 Feb 09 01:46	18°♃00'53		morning rise	2448 Dec 18 03:51	11°♁49'13	
	2444 Feb 25 18:02	0°♄			2449 Jan 12 11:11	0°♁	
	2444 Apr 08 11:30	0°♂			2449 Feb 21 23:26	0°♁	
	2444 May 22 20:06	0°♄			2449 Apr 02 09:46	0°♁	
evening set	2444 Jul 02 17:23	26°♁47'09			2449 May 11 12:02	0°♃	
	2444 Jul 07 16:44	0°♂			2449 Jun 20 07:06	0°♄	
					2449 Aug 01 09:49	0°♂	
conjunction	2444 Aug 19 08:29	27°♂20'17	1°08'38		2449 Sep 18 16:29	0°♄	
minimum elong	2444 Aug 19 08:37	27°♂20'29	1°08'37	asc. node	2449 Sep 30 23:20	6°♁22'51	
max. Earth dist.	2444 Aug 22 12:02	29°♂20'38	2.67244 AU	retrograde	2449 Nov 23 19:31	21°♁52'11	
	2444 Aug 23 12:46	0°♃		min. Earth dist.	2449 Dec 27 14:39	14°♁16'40	0.59280 AU
morning rise	2444 Oct 03 06:39	25°♃55'29		greatest brilliancy	2450 Jan 01 06:19	12°♁26'41	-1.6m
	2444 Oct 09 16:14	0°♄		opposition	2450 Jan 02 08:11	12°♁01'07	3°41'43
	2444 Nov 25 14:39	0°♃		direct	2450 Feb 08 13:56	3°♁26'19	
	2445 Jan 11 04:19	0°♁			2450 May 01 13:08	0°♂	
desc. node	2445 Feb 24 18:52	28°♁48'05			2450 Jun 25 11:18	0°♃	
	2445 Feb 26 15:33	0°♁			2450 Aug 14 05:23	0°♄	
	2445 Apr 14 20:04	0°♁			2450 Sep 29 18:55	0°♃	
	2445 Jun 05 00:00	0°♁		desc. node	2450 Oct 17 15:00	11°♃59'53	
retrograde	2445 Aug 07 21:24	20°♁38'56		evening set	2450 Oct 25 13:45	17°♃26'08	
min. Earth dist.	2445 Sep 05 16:20	15°♁57'12	0.37296 AU	max. Earth dist.	2450 Nov 09 10:03	27°♃45'02	2.49982 AU
opposition	2445 Sep 07 10:20	15°♁29'02	-6°-19'-37		2450 Nov 12 14:51	0°♁	
greatest brilliancy	2445 Sep 07 03:04	15°♁33'55	-2.9m	conjunction	2450 Dec 15 13:27	23°♁41'38	0°-34'00
direct	2445 Oct 06 21:49	10°♁34'47		minimum elong	2450 Dec 15 11:54	23°♁38'49	0°34'00
	2445 Dec 07 09:55	0°♃			2450 Dec 24 02:45	0°♁	
asc. node	2445 Dec 27 01:30	10°♃51'22			2451 Feb 01 19:38	0°♁	
	2446 Jan 27 18:16	0°♄		morning rise	2451 Feb 10 15:15	6°♁47'50	
	2446 Mar 16 02:27	0°♂			2451 Mar 12 10:26	0°♁	
	2446 May 02 03:52	0°♄			2451 Apr 19 18:41	0°♃	
	2446 Jun 18 15:11	0°♂			2451 May 28 17:43	0°♄	
evening set	2446 Aug 05 06:35	0°♃			2451 Jul 08 07:14	0°♂	
	2446 Aug 10 09:00	3°♃13'12		asc. node	2451 Aug 18 22:54	28°♂50'11	
max. Earth dist.	2446 Sep 14 18:33	25°♃42'13	2.66660 AU		2451 Aug 20 17:05	0°♄	
	2446 Sep 21 11:32	0°♄			2451 Oct 08 13:54	0°♂	
conjunction	2446 Sep 24 20:08	2°♄09'22	0°53'32	retrograde	2451 Dec 29 20:24	28°♂52'18	
minimum elong	2446 Sep 24 21:12	2°♄11'05	0°53'31	min. Earth dist.	2452 Feb 06 05:39	19°♂44'26	0.66560 AU
	2446 Nov 06 15:44	0°♃		opposition	2452 Feb 08 03:16	18°♂58'49	4°34'09
morning rise	2446 Nov 08 06:45	1°♃04'19		greatest brilliancy	2452 Feb 07 16:38	19°♂09'28	-1.3m
	2446 Dec 21 11:08	0°♁		direct	2452 Mar 19 02:38	9°♂27'18	
desc. node	2447 Jan 12 17:53	15°♁16'57			2452 May 28 07:09	0°♃	
	2447 Feb 02 20:53	0°♁			2452 Jul 23 01:31	0°♄	
	2447 Mar 17 00:52	0°♁		desc. node	2452 Sep 03 14:45	26°♄17'13	
	2447 Apr 27 09:11	0°♁			2452 Sep 09 08:09	0°♃	
	2447 Jun 07 20:11	0°♃			2452 Oct 23 13:23	0°♁	
	2447 Jul 21 19:01	0°♄			2452 Dec 03 21:13	0°♁	
	2447 Sep 19 18:25	0°♂		evening set	2452 Dec 13 23:41	7°♁35'28	
retrograde	2447 Oct 11 17:20	3°♂18'37			2453 Jan 12 04:53	0°♁	
	2447 Nov 02 04:37	30°♃		max. Earth dist.	2453 Jan 19 17:50	5°♁52'23	2.37639 AU
min. Earth dist.	2447 Nov 09 01:46	27°♃47'14	0.46807 AU	conjunction	2453 Feb 14 02:14	25°♁47'29	-1°-4'-41
asc. node	2447 Nov 14 00:27	26°♃02'25		minimum elong	2453 Feb 14 02:38	25°♁48'16	1°04'42
opposition	2447 Nov 17 07:17	24°♃52'01	0°11'06		2453 Feb 19 10:09	0°♁	
greatest brilliancy	2448 Feb 11 23:29	2°♂10'44	-3.1m		2453 Mar 29 11:07	0°♃	
direct	2447 Dec 20 06:58	18°♃01'25		morning rise	2453 Apr 25 20:03	21°♃17'13	
	2448 Feb 06 22:01	0°♂			2453 May 07 05:06	0°♄	
	2448 Apr 06 04:04	0°♄			2453 Jun 16 11:39	0°♂	
	2448 May 27 20:01	0°♂		asc. node	2453 Jul 05 20:46	13°♂54'01	
	2448 Jul 16 08:18	0°♃			2453 Jul 29 00:09	0°♄	
	2448 Sep 02 05:47	0°♄			2453 Sep 12 13:41	0°♂	
evening set	2448 Sep 15 08:23	8°♄24'36			2453 Nov 02 02:17	0°♃	
max. Earth dist.	2448 Oct 08 10:04	23°♄27'20	2.60732 AU		2454 Jan 12 15:52	0°♄	
	2448 Oct 18 07:12	0°♃		retrograde	2454 Feb 01 07:39	2°♄12'33	
conjunction	2448 Oct 31 14:33	8°♃55'10	0°16'39		2454 Feb 19 20:07	30°♃	
minimum elong	2448 Oct 31 15:08	8°♃56'09	0°16'39	opposition	2454 Mar 13 03:06	22°♃47'29	3°57'58
desc. node	2448 Nov 29 16:21	28°♃50'27		greatest brilliancy	2454 Mar 13 11:14	22°♃39'27	-1.2m
	2448 Dec 01 08:18	0°♁		min. Earth dist.	2454 Mar 15 02:55	22°♃00'16	0.67336 AU

direct	2454 Apr 23 11:55	12°♎48'27		2459 Jul 15 15:39	0°♏		
	2454 Jun 24 10:31	0°♌					
desc. node	2454 Jul 22 13:38	14°♌23'53		conjunction	2459 Aug 05 12:17	13°♏28'52	1°07'32
	2454 Aug 18 06:29	0°♍		minimum elong	2459 Aug 05 11:49	13°♏28'06	1°07'32
	2454 Oct 03 04:31	0°♎		max. Earth dist.	2459 Aug 14 12:18	19°♏15'28	2.65966 AU
	2454 Nov 13 23:05	0°♏			2459 Aug 31 07:45	0°♎	
	2454 Dec 23 07:31	0°♐		morning rise	2459 Sep 20 11:37	12°♎49'12	
	2455 Jan 30 11:26	0°♑			2459 Oct 17 14:26	0°♌	
evening set	2455 Feb 19 20:20	16°♑06'07			2459 Dec 04 02:25	0°♍	
greatest brilliancy	2455 Feb 24 01:22	19°♑25'19	1.2m		2460 Jan 20 22:38	0°♎	
	2455 Mar 09 12:30	0°♒			2460 Mar 10 01:19	0°♏	
	2455 Apr 17 09:02	0°♓		desc. node	2460 Mar 13 10:04	1°♏59'45	
					2460 May 03 01:39	0°♐	
conjunction	2455 Apr 28 10:49	8°♓21'22	0°-16'-33	retrograde	2460 Jul 06 14:45	19°♐32'08	
minimum elong	2455 Apr 28 12:12	8°♓23'59	0°16'32	opposition	2460 Aug 05 19:44	14°♐30'20	-6°-39'-49
asc. node	2455 May 23 20:03	27°♓07'21		greatest brilliancy	2460 Aug 06 23:29	14°♐11'30	-2.8m
	2455 May 27 19:07	0°♑		min. Earth dist.	2460 Aug 09 15:13	13°♐28'19	0.38254 AU
max. Earth dist.	2455 Jun 14 20:26	12°♑56'24	2.47048 AU	direct	2460 Sep 05 23:50	9°♐03'33	
morning rise	2455 Jun 29 21:19	23°♑29'52			2460 Nov 07 13:35	0°♑	
	2455 Jul 09 06:59	0°♒			2460 Dec 26 00:41	0°♒	
	2455 Aug 23 03:02	0°♓		asc. node	2461 Jan 12 16:52	11°♒45'16	
	2455 Oct 09 14:20	0°♑			2461 Feb 08 19:14	0°♓	
	2455 Nov 29 23:48	0°♌			2461 Mar 25 12:40	0°♑	
	2456 Feb 02 17:46	0°♍			2461 May 10 04:44	0°♒	
retrograde	2456 Mar 10 03:43	6°♍44'44			2461 Jun 25 21:02	0°♓	
	2456 Apr 12 12:01	30°♒♌		evening set	2461 Jul 26 19:02	19°♓38'48	
opposition	2456 Apr 17 07:27	28°♌11'33	2°02'14		2461 Aug 12 02:49	0°♑	
greatest brilliancy	2456 Apr 17 22:24	27°♌57'16	-1.5m	max. Earth dist.	2461 Sep 05 16:22	15°♑36'10	2.67536 AU
min. Earth dist.	2456 Apr 23 01:53	25°♌59'27	0.61516 AU				
direct	2456 May 28 11:43	18°♌17'02		conjunction	2461 Sep 10 18:00	18°♑49'51	1°02'13
desc. node	2456 Jun 08 11:43	19°♌02'08		minimum elong	2461 Sep 10 18:50	18°♑51'12	1°02'12
	2456 Jul 15 02:18	0°♍			2461 Sep 28 05:39	0°♌	
	2456 Sep 07 21:55	0°♎		morning rise	2461 Oct 25 00:33	17°♌14'56	
	2456 Oct 21 21:17	0°♏			2461 Nov 13 14:53	0°♍	
	2456 Dec 01 01:29	0°♐			2461 Dec 28 23:05	0°♎	
	2457 Jan 08 16:12	0°♑		desc. node	2462 Jan 29 09:01	21°♎13'04	
	2457 Feb 16 02:59	0°♒			2462 Feb 11 05:36	0°♏	
	2457 Mar 27 10:33	0°♓			2462 Mar 26 15:01	0°♐	
asc. node	2457 Apr 09 20:07	9°♓58'25			2462 May 08 16:06	0°♑	
evening set	2457 Apr 27 08:17	22°♓47'13			2462 Jun 22 00:14	0°♒	
	2457 May 07 08:33	0°♑			2462 Aug 14 17:35	0°♓	
	2457 Jun 19 06:16	0°♒		retrograde	2462 Sep 19 23:38	8°♓22'26	
				min. Earth dist.	2462 Oct 16 17:31	3°♓36'34	0.41772 AU
conjunction	2457 Jun 23 11:35	2°♓52'37	0°42'56	greatest brilliancy	2462 Oct 23 09:07	1°♓28'48	-2.6m
minimum elong	2457 Jun 23 09:50	2°♓49'39	0°42'55	opposition	2462 Oct 24 05:39	1°♓12'15	-2°-19'-6
max. Earth dist.	2457 Jul 19 17:09	20°♓28'54	2.58972 AU		2462 Oct 28 01:08	30°♒♑	
	2457 Aug 03 03:59	0°♓		direct	2462 Nov 24 08:52	25°♑17'36	
morning rise	2457 Aug 13 20:31	6°♓57'53		asc. node	2462 Nov 30 16:58	25°♑33'34	
	2457 Sep 18 19:57	0°♑			2462 Dec 22 14:46	0°♓	
	2457 Nov 06 02:26	0°♌			2463 Feb 25 01:22	0°♑	
	2457 Dec 26 14:53	0°♍			2463 Apr 17 12:18	0°♒	
	2458 Feb 21 09:29	0°♎			2463 Jun 05 23:01	0°♓	
desc. node	2458 Apr 26 10:43	18°♎25'11			2463 Jul 24 13:17	0°♑	
retrograde	2458 Apr 27 11:20	18°♎25'34		evening set	2463 Sep 01 20:32	24°♑44'09	
opposition	2458 Jun 01 06:40	11°♎22'26	-1°-44'-20		2463 Sep 10 02:28	0°♌	
greatest brilliancy	2458 Jun 02 02:09	11°♎05'29	-2.1m	max. Earth dist.	2463 Sep 29 10:21	12°♌27'33	2.63666 AU
min. Earth dist.	2458 Jun 09 16:55	8°♎26'51	0.49928 AU				
direct	2458 Jul 09 15:09	2°♎42'20		conjunction	2463 Oct 17 10:13	24°♌13'40	0°33'13
	2458 Sep 21 12:20	0°♏		minimum elong	2463 Oct 17 11:12	24°♌15'18	0°33'12
	2458 Nov 05 09:08	0°♐			2463 Oct 26 03:42	0°♍	
	2458 Dec 16 01:19	0°♑		morning rise	2463 Dec 02 05:35	25°♍02'02	
	2459 Jan 24 21:38	0°♒			2463 Dec 09 10:29	0°♎	
asc. node	2459 Feb 25 18:40	23°♒41'05		desc. node	2463 Dec 17 08:22	5°♎29'34	
	2459 Mar 06 09:47	0°♓			2464 Jan 20 23:05	0°♏	
	2459 Apr 17 09:22	0°♑			2464 Mar 01 23:32	0°♐	
	2459 May 31 04:22	0°♒			2464 Apr 10 22:47	0°♑	
evening set	2459 Jun 17 02:32	11°♒16'59			2464 May 20 14:52	0°♒	

	2464 Jun 30 05:01	0°♄			2469 Jul 07 00:48	0°♁		
	2464 Aug 13 03:26	0°♁		desc. node	2469 Aug 08 04:51	18°♁20'05		
	2464 Oct 10 14:27	0°♁			2469 Aug 27 02:04	0°♁		
asc. node	2464 Oct 17 15:52	2°♁07'42			2469 Oct 11 02:44	0°♁		
retrograde	2464 Nov 08 02:46	5°♁09'40			2469 Nov 21 15:14	0°♁		
	2464 Dec 05 05:38	30°♁♁			2469 Dec 30 22:30	0°♁		
min. Earth dist.	2464 Dec 09 19:01	28°♁19'51	0.54835 AU	evening set	2470 Jan 22 13:02	17°♁43'00		
opposition	2464 Dec 16 20:27	25°♁36'51	2°45'28		2470 Feb 07 02:11	0°♁		
greatest brilliancy	2464 Dec 15 19:07	26°♁01'17	-1.8m		2470 Mar 17 02:24	0°♁		
direct	2465 Jan 21 15:12	17°♁35'46						
	2465 Mar 13 07:23	0°♁		conjunction	2470 Mar 31 14:56	11°♁20'25	0°-43'-6	
	2465 May 12 15:48	0°♁		minimum elong	2470 Mar 31 18:11	11°♁26'43	0°43'04	
	2465 Jul 03 15:50	0°♁			2470 Apr 24 21:01	0°♁		
	2465 Aug 21 11:59	0°♁		max. Earth dist.	2470 May 22 13:48	20°♁45'55	2.41607 AU	
	2465 Oct 06 19:14	0°♁			2470 Jun 04 04:24	0°♁		
evening set	2465 Oct 09 03:15	1°♁33'19		morning rise	2470 Jun 07 08:31	2°♁18'00		
max. Earth dist.	2465 Oct 26 09:02	13°♁11'06	2.54709 AU	asc. node	2470 Jun 09 13:32	3°♁53'46		
desc. node	2465 Nov 03 07:15	18°♁36'45			2470 Jul 16 14:31	0°♁		
	2465 Nov 19 16:26	0°♁			2470 Aug 30 13:29	0°♁		
					2470 Oct 17 17:50	0°♁		
conjunction	2465 Nov 26 15:20	4°♁54'12	0°-13'-45		2470 Dec 11 00:33	0°♁		
minimum elong	2465 Nov 26 14:44	4°♁53'09	0°13'45	retrograde	2471 Feb 23 16:25	23°♁02'38		
behind sun begin	2465 Nov 26 03:21	4°♁33'01		opposition	2471 Apr 03 15:31	14°♁05'50	2°57'38	
behind sun end	2465 Nov 27 02:07	5°♁13'17		greatest brilliancy	2471 Apr 04 06:30	13°♁51'17	-1.4m	
	2465 Dec 31 09:13	0°♁		min. Earth dist.	2471 Apr 07 23:30	12°♁24'53	0.64557 AU	
morning rise	2466 Jan 17 21:55	13°♁01'23		direct	2471 May 15 03:00	4°♁04'21		
	2466 Feb 09 08:30	0°♁		desc. node	2471 Jun 26 03:29	13°♁11'26		
	2466 Mar 20 05:17	0°♁			2471 Jul 31 17:59	0°♁		
	2466 Apr 27 18:28	0°♁			2471 Sep 18 22:32	0°♁		
	2466 Jun 05 22:09	0°♁			2471 Oct 31 16:14	0°♁		
	2466 Jul 16 19:17	0°♁			2471 Dec 10 09:24	0°♁		
	2466 Aug 30 03:07	0°♁			2472 Jan 17 17:52	0°♁		
asc. node	2466 Sep 04 14:00	3°♁26'50			2472 Feb 24 23:13	0°♁		
	2466 Oct 22 00:59	0°♁		evening set	2472 Apr 03 00:57	29°♁14'31		
retrograde	2466 Dec 16 07:54	15°♁25'36			2472 Apr 04 01:04	0°♁		
min. Earth dist.	2467 Jan 22 01:40	6°♁49'52	0.64469 AU	asc. node	2472 Apr 26 11:57	16°♁44'09		
opposition	2467 Jan 25 11:33	5°♁27'59	4°26'30		2472 May 14 16:59	0°♁		
greatest brilliancy	2467 Jan 24 17:34	5°♁46'00	-1.4m					
	2467 Feb 09 10:03	30°♁♁		conjunction	2472 Jun 03 11:59	14°♁05'44	0°23'40	
direct	2467 Mar 05 13:07	26°♁14'32		minimum elong	2472 Jun 03 10:35	14°♁03'17	0°23'39	
	2467 Mar 31 22:07	0°♁			2472 Jun 26 09:24	0°♁		
	2467 Jun 09 23:13	0°♁		max. Earth dist.	2472 Jul 07 15:17	7°♁39'53	2.54825 AU	
	2467 Aug 01 09:52	0°♁		morning rise	2472 Jul 28 09:44	21°♁34'43		
	2467 Sep 17 19:46	0°♁			2472 Aug 10 04:31	0°♁		
desc. node	2467 Sep 21 05:56	2°♁15'35			2472 Sep 26 00:29	0°♁		
	2467 Oct 31 20:02	0°♁			2472 Nov 14 01:47	0°♁		
evening set	2467 Nov 23 11:29	16°♁12'58			2473 Jan 06 04:06	0°♁		
max. Earth dist.	2467 Dec 10 12:54	28°♁45'52	2.42048 AU		2473 Mar 24 20:42	0°♁		
	2467 Dec 12 04:46	0°♁		retrograde	2473 Apr 06 16:34	0°♁57'02		
					2473 Apr 19 00:50	30°♁♁		
conjunction	2468 Jan 19 10:27	29°♁03'45	0°-59'-43	opposition	2473 May 13 01:41	23°♁12'22	0°00'01	
minimum elong	2468 Jan 19 08:43	29°♁00'23	0°59'44	greatest brilliancy	2474 May 15 10:53	14°♁17'29	2.4m	
	2468 Jan 20 15:32	0°♁		desc. node	2473 May 13 01:51	23°♁12'13		
	2468 Feb 27 23:47	0°♁		min. Earth dist.	2473 May 20 18:40	20°♁23'31	0.55010 AU	
morning rise	2468 Mar 26 01:26	21°♁19'38		direct	2473 Jun 21 23:35	13°♁49'40		
	2468 Apr 06 02:35	0°♁			2473 Aug 16 09:14	0°♁		
	2468 May 14 21:08	0°♁			2473 Oct 05 05:52	0°♁		
	2468 Jun 24 04:03	0°♁			2473 Nov 16 03:58	0°♁		
asc. node	2468 Jul 22 13:52	20°♁11'50			2473 Dec 25 15:27	0°♁		
	2468 Aug 05 20:16	0°♁			2474 Feb 02 17:13	0°♁		
	2468 Sep 21 02:31	0°♁		asc. node	2474 Mar 14 11:05	29°♁53'56		
	2468 Nov 13 17:46	0°♁			2474 Mar 14 14:22	0°♁		
retrograde	2469 Jan 18 19:39	19°♁33'35			2474 Apr 25 01:00	0°♁		
opposition	2469 Feb 27 22:52	9°♁54'43	4°20'58	evening set	2474 May 29 23:59	24°♁17'35		
greatest brilliancy	2469 Feb 28 00:13	9°♁53'23	-1.2m		2474 Jun 07 09:30	0°♁		
min. Earth dist.	2469 Feb 28 10:21	9°♁43'18	0.67822 AU					
direct	2469 Apr 09 22:30	0°♁		conjunction	2474 Jul 20 19:26	28°♁50'55	1°01'58	

minimum elong	2474 Jul 20 18:19	28° $\overline{\text{S}}$ 49'06	1°01'59	retrograde	2479 Oct 22 16:32	16° $\overline{\text{II}}$ 02'21	
	2474 Jul 22 13:45	0° $\overline{\text{Q}}$		asc. node	2479 Nov 04 07:57	14° $\overline{\text{II}}$ 51'44	
max. Earth dist.	2474 Aug 05 03:03	8° $\overline{\text{Q}}$ 48'19	2.63880 AU	min. Earth dist.	2479 Nov 21 03:27	10° $\overline{\text{II}}$ 03'24	0.49717 AU
morning rise	2474 Sep 06 08:38	29° $\overline{\text{Q}}$ 29'08		opposition	2479 Nov 29 04:41	7° $\overline{\text{II}}$ 05'42	1°18'34
	2474 Sep 07 04:01	0° $\overline{\text{M}}$		greatest brilliancy	2479 Nov 28 13:19	7° $\overline{\text{II}}$ 19'52	-2.1m
	2474 Oct 24 16:42	0° $\overline{\text{L}}$			2479 Dec 27 15:16	30° $\overline{\text{R}}$ 8	
	2474 Dec 12 00:13	0° $\overline{\text{M}}$		direct	2480 Jan 02 05:59	29° $\overline{\text{R}}$ 47'30	
	2475 Jan 30 19:23	0° $\overline{\text{X}}$			2480 Jan 07 23:20	0° $\overline{\text{II}}$	
	2475 Mar 26 07:20	0° $\overline{\text{Z}}$			2480 Mar 29 08:58	0° $\overline{\text{S}}$	
desc. node	2475 Mar 31 01:34	2° $\overline{\text{Z}}$ 20'31			2480 May 22 01:45	0° $\overline{\text{Q}}$	
retrograde	2475 Jun 06 09:59	22° $\overline{\text{Z}}$ 28'09			2480 Jul 11 07:54	0° $\overline{\text{M}}$	
opposition	2475 Jul 08 08:23	16° $\overline{\text{Z}}$ 43'51	-5°-3'-2		2480 Aug 28 12:51	0° $\overline{\text{L}}$	
greatest brilliancy	2475 Jul 10 01:30	16° $\overline{\text{Z}}$ 12'34	-2.5m	evening set	2480 Sep 23 19:40	16° $\overline{\text{L}}$ 54'56	
min. Earth dist.	2475 Jul 15 14:55	14° $\overline{\text{Z}}$ 32'05	0.41952 AU		2480 Oct 13 16:24	0° $\overline{\text{M}}$	
direct	2475 Aug 11 14:26	9° $\overline{\text{Z}}$ 56'16		max. Earth dist.	2480 Oct 14 15:25	0° $\overline{\text{M}}$ 38'19	2.58781 AU
	2475 Oct 10 21:14	0° $\overline{\text{R}}$					
	2475 Nov 27 00:18	0° $\overline{\text{K}}$		conjunction	2480 Nov 09 16:19	18° $\overline{\text{M}}$ 14'03	0°06'01
	2476 Jan 08 15:14	0° $\overline{\text{Y}}$		minimum elong	2480 Nov 09 16:33	18° $\overline{\text{M}}$ 14'27	0°06'00
asc. node	2476 Jan 30 09:51	15° $\overline{\text{Y}}$ 30'04		behind sun begin	2480 Nov 08 21:41	17° $\overline{\text{M}}$ 42'08	
	2476 Feb 19 21:48	0° $\overline{\text{R}}$		behind sun end	2480 Nov 10 11:26	18° $\overline{\text{M}}$ 46'48	
	2476 Apr 03 03:59	0° $\overline{\text{II}}$		desc. node	2480 Nov 19 22:19	25° $\overline{\text{M}}$ 17'58	
	2476 May 17 21:19	0° $\overline{\text{S}}$			2480 Nov 26 16:26	0° $\overline{\text{X}}$	
	2476 Jul 02 23:22	0° $\overline{\text{Q}}$		morning rise	2480 Dec 28 14:01	22° $\overline{\text{X}}$ 40'38	
evening set	2476 Jul 11 16:25	5° $\overline{\text{Q}}$ 35'39			2481 Jan 07 15:48	0° $\overline{\text{Z}}$	
	2476 Aug 18 22:04	0° $\overline{\text{M}}$			2481 Feb 16 23:29	0° $\overline{\text{R}}$	
					2481 Mar 28 04:44	0° $\overline{\text{K}}$	
conjunction	2476 Aug 27 13:42	5° $\overline{\text{M}}$ 30'17	1°07'21		2481 May 06 01:35	0° $\overline{\text{Y}}$	
minimum elong	2476 Aug 27 14:08	5° $\overline{\text{M}}$ 30'59	1°07'21		2481 Jun 14 13:32	0° $\overline{\text{R}}$	
max. Earth dist.	2476 Aug 27 17:29	5° $\overline{\text{M}}$ 36'18	2.67586 AU		2481 Jul 26 01:13	0° $\overline{\text{II}}$	
	2476 Oct 05 00:48	0° $\overline{\text{L}}$			2481 Sep 10 04:48	0° $\overline{\text{S}}$	
morning rise	2476 Oct 11 03:08	3° $\overline{\text{L}}$ 53'44		asc. node	2481 Sep 21 07:54	6° $\overline{\text{S}}$ 25'25	
	2476 Nov 20 17:53	0° $\overline{\text{M}}$			2481 Nov 19 10:28	0° $\overline{\text{Q}}$	
	2477 Jan 05 19:37	0° $\overline{\text{X}}$		retrograde	2481 Dec 02 06:25	1° $\overline{\text{Q}}$ 04'19	
desc. node	2477 Feb 15 01:28	26° $\overline{\text{X}}$ 30'53			2481 Dec 14 15:05	30° $\overline{\text{R}}$ 8	
	2477 Feb 20 07:56	0° $\overline{\text{Z}}$		min. Earth dist.	2482 Jan 06 03:31	23° $\overline{\text{S}}$ 05'52	0.61368 AU
	2477 Apr 06 17:01	0° $\overline{\text{R}}$		greatest brilliancy	2482 Jan 10 01:29	21° $\overline{\text{S}}$ 32'34	-1.5m
	2477 May 23 06:27	0° $\overline{\text{K}}$		opposition	2482 Jan 11 01:25	21° $\overline{\text{S}}$ 08'46	4°03'40
	2477 Jul 17 07:47	0° $\overline{\text{Y}}$		direct	2482 Feb 17 23:53	12° $\overline{\text{S}}$ 18'34	
retrograde	2477 Aug 24 23:13	9° $\overline{\text{Y}}$ 00'28			2482 Apr 22 17:18	0° $\overline{\text{Q}}$	
min. Earth dist.	2477 Sep 20 22:12	4° $\overline{\text{Y}}$ 34'00	0.38147 AU		2482 Jun 19 15:06	0° $\overline{\text{M}}$	
opposition	2477 Sep 25 11:41	3° $\overline{\text{Y}}$ 17'19	-5°-7'-33		2482 Aug 09 04:43	0° $\overline{\text{L}}$	
greatest brilliancy	2477 Sep 24 14:32	3° $\overline{\text{Y}}$ 32'10	-2.8m		2482 Sep 25 01:15	0° $\overline{\text{M}}$	
	2477 Oct 08 10:28	30° $\overline{\text{R}}$ 8		desc. node	2482 Oct 07 21:13	8° $\overline{\text{M}}$ 34'26	
direct	2477 Oct 25 02:07	28° $\overline{\text{K}}$ 12'31		evening set	2482 Nov 04 12:21	27° $\overline{\text{M}}$ 34'28	
	2477 Nov 10 22:12	0° $\overline{\text{Y}}$			2482 Nov 07 23:12	0° $\overline{\text{X}}$	
asc. node	2477 Dec 17 08:03	13° $\overline{\text{Y}}$ 05'44		max. Earth dist.	2482 Nov 18 17:32	7° $\overline{\text{X}}$ 38'12	2.47191 AU
	2478 Jan 18 08:09	0° $\overline{\text{R}}$			2482 Dec 19 10:13	0° $\overline{\text{Z}}$	
	2478 Mar 09 09:27	0° $\overline{\text{II}}$					
	2478 Apr 26 14:03	0° $\overline{\text{S}}$		conjunction	2482 Dec 27 07:19	5° $\overline{\text{Z}}$ 52'18	0°-44'-49
	2478 Jun 13 15:05	0° $\overline{\text{Q}}$		minimum elong	2482 Dec 27 05:22	5° $\overline{\text{Z}}$ 48'40	0°44'49
	2478 Jul 31 13:35	0° $\overline{\text{M}}$			2483 Jan 28 01:03	0° $\overline{\text{R}}$	
evening set	2478 Aug 18 14:01	11° $\overline{\text{M}}$ 21'23		morning rise	2483 Feb 25 15:50	22° $\overline{\text{R}}$ 14'39	
	2478 Sep 16 21:09	0° $\overline{\text{L}}$			2483 Mar 07 13:19	0° $\overline{\text{K}}$	
max. Earth dist.	2478 Sep 20 02:48	2° $\overline{\text{L}}$ 04'32	2.65830 AU		2483 Apr 14 19:05	0° $\overline{\text{Y}}$	
				greatest brilliancy	2483 Apr 24 21:52	7° $\overline{\text{Y}}$ 52'59	1.2m
conjunction	2478 Oct 02 22:43	10° $\overline{\text{L}}$ 20'50	0°46'57		2483 May 23 15:46	0° $\overline{\text{R}}$	
minimum elong	2478 Oct 02 23:50	10° $\overline{\text{L}}$ 22'38	0°46'55		2483 Jul 03 01:29	0° $\overline{\text{II}}$	
	2478 Nov 02 00:14	0° $\overline{\text{M}}$		asc. node	2483 Aug 09 06:01	26° $\overline{\text{II}}$ 04'19	
morning rise	2478 Nov 16 16:48	9° $\overline{\text{M}}$ 45'34			2483 Aug 15 02:00	0° $\overline{\text{S}}$	
	2478 Dec 16 15:11	0° $\overline{\text{X}}$			2483 Oct 01 14:44	0° $\overline{\text{Q}}$	
desc. node	2479 Jan 02 23:46	11° $\overline{\text{X}}$ 57'56			2483 Dec 02 02:11	0° $\overline{\text{M}}$	
	2479 Jan 28 16:56	0° $\overline{\text{Z}}$		retrograde	2484 Jan 06 12:34	6° $\overline{\text{M}}$ 47'52	
	2479 Mar 11 10:07	0° $\overline{\text{R}}$			2484 Feb 08 02:35	30° $\overline{\text{R}}$ 8	
	2479 Apr 21 04:17	0° $\overline{\text{K}}$		opposition	2484 Feb 15 18:59	26° $\overline{\text{Q}}$ 58'44	4°32'45
	2479 May 31 19:01	0° $\overline{\text{Y}}$		min. Earth dist.	2484 Feb 14 17:57	27° $\overline{\text{Q}}$ 23'45	0.67285 AU
	2479 Jul 12 22:41	0° $\overline{\text{R}}$		greatest brilliancy	2484 Feb 15 12:42	27° $\overline{\text{Q}}$ 05'01	-1.2m
	2479 Aug 30 19:17	0° $\overline{\text{II}}$		direct	2484 Mar 27 04:04	17° $\overline{\text{Q}}$ 19'01	

	2484 May 18 14:27	0°♎			2489 May 02 12:37	0°♈
	2484 Jul 17 02:29	0°♌		evening set	2489 May 09 21:32	5°♈14'35
desc. node	2484 Aug 24 20:09	23°♌22'27			2489 Jun 14 13:02	0°♍
	2484 Sep 04 05:01	0°♍				
	2484 Oct 18 17:10	0°♎		conjunction	2489 Jul 03 21:09	13°♍03'16 0°51'28
	2484 Nov 29 03:01	0°♏		minimum elong	2489 Jul 03 19:32	13°♍00'34 0°51'27
evening set	2484 Dec 27 09:20	21°♏26'27		max. Earth dist.	2489 Jul 25 23:02	27°♍40'41 2.60960 AU
	2485 Jan 07 10:54	0°♐			2489 Jul 29 12:02	0°♎
	2485 Feb 14 15:33	0°♑		morning rise	2489 Aug 22 15:47	15°♎40'09
					2489 Sep 14 02:15	0°♏
conjunction	2485 Mar 02 05:42	12°♑19'44 -1°-1'-1			2489 Nov 01 00:25	0°♐
minimum elong	2485 Mar 02 07:48	12°♑23'53 1°01'02			2489 Dec 20 12:59	0°♑
	2485 Mar 24 15:44	0°♒			2490 Feb 11 18:21	0°♎
max. Earth dist.	2485 Mar 25 14:33	0°♒44'46 2.37194 AU		desc. node	2490 Apr 16 17:01	26°♎46'03
	2485 May 02 09:07	0°♓		retrograde	2490 May 10 16:03	29°♎55'49
morning rise	2485 May 12 04:08	7°♓25'39		opposition	2490 Jun 13 11:15	23°♎18'53 -2°-53'-24
	2485 Jun 11 14:46	0°♈		greatest brilliancy	2490 Jun 14 17:54	22°♎53'09 -2.2m
asc. node	2485 Jun 26 04:58	10°♈31'04		min. Earth dist.	2490 Jun 21 21:28	20°♎29'53 0.47015 AU
	2485 Jul 24 00:44	0°♉		direct	2490 Jul 20 14:36	15°♎11'52
	2485 Sep 07 06:22	0°♊			2490 Sep 09 12:31	0°♏
	2485 Oct 26 15:09	0°♋			2490 Oct 28 14:38	0°♐
	2485 Dec 26 04:03	0°♌			2490 Dec 09 12:33	0°♑
retrograde	2486 Feb 09 06:34	9°♌59'44			2491 Jan 19 00:15	0°♒
opposition	2486 Mar 20 20:07	0°♌43'49 3°39'14		asc. node	2491 Feb 16 01:21	20°♒37'56
greatest brilliancy	2486 Mar 21 07:24	0°♌32'43 -1.3m			2491 Feb 28 23:02	0°♓
	2486 Mar 22 16:41	30°♒♎			2491 Apr 12 06:41	0°♈
min. Earth dist.	2486 Mar 23 16:24	29°♒36'43 0.66613 AU			2491 May 26 07:43	0°♉
direct	2486 May 01 07:32	20°♒42'23		evening set	2491 Jun 26 18:37	20°♒46'11
	2486 Jun 13 08:18	0°♓			2491 Jul 10 23:06	0°♊
desc. node	2486 Jul 12 18:42	13°♓16'08				
	2486 Aug 11 23:20	0°♔		conjunction	2491 Aug 14 02:37	21°♓57'51 1°08'40
	2486 Sep 27 19:18	0°♕		minimum elong	2491 Aug 14 02:31	21°♓57'40 1°08'41
	2486 Nov 08 21:07	0°♖		max. Earth dist.	2491 Aug 19 20:40	25°♓38'16 2.66786 AU
	2486 Dec 18 08:35	0°♗			2491 Aug 26 16:49	0°♏
	2487 Jan 25 13:59	0°♘		morning rise	2491 Sep 28 10:09	20°♏48'42
	2487 Mar 04 16:09	0°♙			2491 Oct 12 21:17	0°♐
evening set	2487 Mar 07 21:45	2°♙31'35			2491 Nov 29 01:20	0°♑
	2487 Apr 12 13:56	0°♚			2492 Jan 15 03:17	0°♒
					2492 Mar 02 13:55	0°♓
conjunction	2487 May 12 17:16	22°♚28'32 0°00'-58		desc. node	2492 Mar 03 16:08	0°♓40'57
minimum elong	2487 May 12 17:22	22°♚28'43 0°00'59			2492 Apr 20 20:55	0°♔
behind sun begin	2487 May 11 15:08	21°♚40'38			2492 Jun 19 14:50	0°♕
behind sun end	2487 May 13 19:36	23°♚16'44		retrograde	2492 Jul 24 20:30	7°♕08'02
asc. node	2487 May 14 04:59	23°♚33'54		opposition	2492 Aug 23 23:29	2°♕10'14 -6°-46'-53
	2487 May 23 01:07	0°♈		greatest brilliancy	2492 Aug 24 08:24	2°♕04'18 -2.9m
max. Earth dist.	2487 Jun 24 09:34	22°♈58'22 2.49960 AU		min. Earth dist.	2492 Aug 24 18:59	1°♕57'16 0.37322 AU
	2487 Jul 04 13:18	0°♉			2492 Sep 01 10:35	30°♒♐
morning rise	2487 Jul 11 05:08	4°♉33'42		direct	2492 Sep 22 23:11	27°♐09'48
	2487 Aug 18 07:30	0°♊			2492 Oct 13 21:13	0°♑
	2487 Oct 04 10:55	0°♋			2492 Dec 16 03:33	0°♒
	2487 Nov 23 17:41	0°♌		asc. node	2493 Jan 03 01:26	11°♒01'54
	2488 Jan 20 20:55	0°♍			2493 Feb 01 15:29	0°♓
retrograde	2488 Mar 19 14:03	15°♍25'28			2493 Mar 19 14:30	0°♈
opposition	2488 Apr 26 04:34	7°♍07'41 1°22'48			2493 May 04 22:36	0°♉
greatest brilliancy	2488 Apr 26 16:46	6°♍56'11 -1.6m			2493 Jun 21 00:13	0°♊
min. Earth dist.	2488 May 02 17:19	4°♍39'56 0.59425 AU		evening set	2493 Aug 04 04:51	27°♊56'24
	2488 May 17 00:05	30°♒♌			2493 Aug 07 11:01	0°♋
desc. node	2488 May 29 18:01	27°♌41'50		max. Earth dist.	2493 Sep 10 22:48	21°♋53'35 2.67165 AU
direct	2488 Jun 06 01:07	27°♌20'42				
	2488 Jun 26 23:51	0°♍		conjunction	2493 Sep 18 19:44	26°♋55'17 0°57'33
	2488 Aug 31 15:00	0°♎		minimum elong	2493 Sep 18 20:44	26°♋56'53 0°57'33
	2488 Oct 15 21:49	0°♏			2493 Sep 23 15:09	0°♌
	2488 Nov 25 13:06	0°♐		morning rise	2493 Nov 02 02:54	25°♌32'44
	2489 Jan 03 09:26	0°♑			2493 Nov 08 22:04	0°♍
	2489 Feb 11 00:06	0°♒			2493 Dec 23 23:35	0°♎
	2489 Mar 22 11:17	0°♓		desc. node	2494 Jan 19 15:06	18°♎09'23
asc. node	2489 Mar 31 02:42	6°♓25'34			2494 Feb 05 18:28	0°♏

	2494 Mar 20 10:43	0°♊		desc. node	2499 Sep 11 12:03	29°♌05'36	
	2494 May 01 10:23	0°♋			2499 Sep 12 21:21	0°♍	
	2494 Jun 12 19:59	0°♌			2499 Oct 27 01:49	0°♎	
	2494 Jul 29 01:03	0°♍		evening set	2499 Dec 05 07:22	28°♏23'47	
retrograde	2494 Oct 02 17:11	23°♐27'35			2499 Dec 07 11:04	0°♑	
min. Earth dist.	2494 Oct 30 05:22	18°♐18'37	0.44466 AU	max. Earth dist.	2499 Dec 29 07:41	16°♑29'40	2.39368 AU
opposition	2494 Nov 07 08:58	15°♐31'59	0°-48'-29		2500 Jan 15 20:49	0°♒	
greatest brilliancy	2494 Nov 07 00:03	15°♐39'36	-2.4m				
asc. node	2494 Nov 21 00:47	11°♐24'26		conjunction	2500 Feb 03 01:41	14°♓11'49	-1°-4'-10
direct	2494 Dec 09 11:50	9°♑05'52		minimum elong	2500 Feb 03 00:56	14°♓10'20	1°04'11
	2495 Feb 15 02:04	0°♒			2500 Feb 23 03:43	0°♋	
	2495 Apr 11 00:09	0°♓			2500 Apr 02 05:11	0°♌	
	2495 May 31 14:08	0°♈		morning rise	2500 Apr 13 11:57	8°♌49'21	
	2495 Jul 19 16:25	0°♉			2500 May 10 22:42	0°♍	
	2495 Sep 05 10:39	0°♊			2500 Jun 20 04:15	0°♎	
evening set	2495 Sep 10 02:52	2°♊59'25		asc. node	2500 Jul 13 21:20	16°♎58'03	
max. Earth dist.	2495 Oct 05 05:17	19°♊14'32	2.62148 AU		2500 Aug 01 16:25	0°♏	
	2495 Oct 21 12:52	0°♋			2500 Sep 16 10:07	0°♐	
					2500 Nov 06 20:37	0°♑	
conjunction	2495 Oct 25 23:53	2°♌58'07	0°23'55	retrograde	2501 Jan 27 12:35	27°♑16'05	
minimum elong	2495 Oct 26 00:40	2°♌59'26	0°23'54	opposition	2501 Mar 08 11:58	17°♑44'31	4°08'46
	2495 Dec 04 17:34	0°♎		greatest brilliancy	2501 Mar 08 17:15	17°♑39'17	-1.2m
desc. node	2495 Dec 07 13:41	1°♎58'19		min. Earth dist.	2501 Mar 09 19:48	17°♑12'57	0.67685 AU
morning rise	2495 Dec 11 15:50	4°♎49'25		direct	2501 Apr 18 17:05	7°♑48'13	
	2496 Jan 16 01:34	0°♏			2501 Jun 30 09:00	0°♒	
	2496 Feb 25 19:46	0°♐		desc. node	2501 Jul 30 11:09	16°♒13'33	
	2496 Apr 05 11:52	0°♑			2501 Aug 22 10:49	0°♓	
	2496 May 14 19:21	0°♒			2501 Oct 07 00:48	0°♋	
	2496 Jun 23 20:42	0°♓			2501 Nov 17 17:47	0°♌	
	2496 Aug 05 12:06	0°♈			2501 Dec 27 02:22	0°♍	
asc. node	2496 Sep 25 02:09	0°♉			2502 Feb 03 06:19	0°♎	
retrograde	2496 Oct 07 23:11	5°♉54'20		evening set	2502 Feb 08 07:50	4°♎00'25	
min. Earth dist.	2496 Nov 17 06:46	15°♉23'23			2502 Mar 13 06:28	0°♏	
greatest brilliancy	2496 Dec 20 03:23	8°♉07'23	0.57386 AU				
opposition	2496 Dec 25 08:55	6°♉04'48	-1.7m	conjunction	2502 Apr 17 16:04	27°♏25'27	0°-28'-25
	2496 Dec 26 11:28	5°♉38'46	3°21'27	minimum elong	2502 Apr 17 18:28	27°♏30'03	0°28'24
	2497 Jan 11 21:55	30°♊♈			2502 Apr 21 01:13	0°♐	
direct	2497 Feb 01 02:08	27°♊17'55		asc. node	2502 May 31 20:02	0°♑20'14	
	2497 Feb 22 19:31	0°♓			2502 May 31 08:54	0°♒	
	2497 May 05 16:21	0°♈		max. Earth dist.	2502 Jun 07 00:40	4°♑49'04	2.44615 AU
	2497 Jun 28 05:40	0°♉		morning rise	2502 Jun 21 13:28	15°♑11'45	
	2497 Aug 16 14:40	0°♊			2502 Jul 12 18:24	0°♓	
	2497 Oct 02 02:33	0°♋			2502 Aug 26 14:03	0°♋	
evening set	2497 Oct 18 08:38	10°♌54'28			2502 Oct 13 06:03	0°♌	
desc. node	2497 Oct 24 12:25	15°♌06'03			2502 Dec 04 13:11	0°♍	
max. Earth dist.	2497 Nov 03 01:53	21°♌40'41	2.52163 AU		2503 Feb 18 17:18	0°♎	
	2497 Nov 15 00:22	0°♎		retrograde	2503 Mar 05 08:41	1°♎13'59	
					2503 Mar 19 08:40	30°♊♈	
conjunction	2497 Dec 07 02:53	15°♏44'42	0°-25'-29	opposition	2503 Apr 12 21:48	22°♌29'44	2°27'04
minimum elong	2497 Dec 07 01:44	15°♏42'38	0°25'29	greatest brilliancy	2503 Apr 13 13:15	22°♌14'52	-1.4m
	2497 Dec 26 15:29	0°♑		min. Earth dist.	2503 Apr 18 01:12	20°♌30'58	0.63001 AU
morning rise	2498 Jan 30 20:26	26°♑26'49		direct	2503 May 24 06:22	12°♌30'58	
	2498 Feb 04 12:00	0°♒		desc. node	2503 Jun 17 09:07	15°♌52'19	
	2498 Mar 15 05:52	0°♓			2503 Jul 23 20:22	0°♍	
	2498 Apr 22 16:01	0°♈			2503 Sep 13 18:31	0°♎	
	2498 May 31 16:15	0°♉			2503 Oct 27 05:02	0°♏	
	2498 Jul 11 07:20	0°♊			2503 Dec 06 04:47	0°♐	
	2498 Aug 23 22:47	0°♋			2504 Jan 13 16:47	0°♑	
asc. node	2498 Aug 25 22:55	1°♓18'25			2504 Feb 21 00:30	0°♒	
	2498 Oct 12 22:24	0°♈			2504 Mar 31 04:26	0°♓	
retrograde	2498 Dec 24 03:36	23°♉40'26		asc. node	2504 Apr 17 20:03	13°♐09'45	
min. Earth dist.	2499 Jan 30 19:37	14°♉46'07	0.65744 AU	evening set	2504 Apr 18 03:15	13°♐23'01	
opposition	2499 Feb 02 09:07	13°♉44'33	4°32'44		2504 May 10 22:24	0°♑	
greatest brilliancy	2499 Feb 01 19:07	13°♉58'34	-1.3m				
direct	2499 Mar 13 22:51	4°♊20'27		conjunction	2504 Jun 16 03:39	25°♑30'57	0°35'27
	2499 Jun 02 16:53	0°♋		minimum elong	2504 Jun 16 01:57	25°♑28'01	0°35'26
	2499 Jul 26 22:37	0°♌			2504 Jun 22 16:10	0°♓	

max. Earth dist.	2504 Jul 15 18:14	15°♄37'35	2.57201 AU	min. Earth dist.	2509 Oct 06 17:39	21°♃54'55	0.39881 AU
	2504 Aug 06 11:22	0°♁		greatest brilliancy	2509 Oct 12 05:04	20°♃15'44	-2.7m
morning rise	2504 Aug 07 23:30	0°♁59'11		opposition	2509 Oct 13 05:30	19°♃57'09	-3°-33'-38
	2504 Sep 22 03:39	0°♎		direct	2509 Nov 12 14:49	14°♃27'21	
	2504 Nov 09 16:23	0°♊		asc. node	2509 Dec 08 16:53	18°♃34'21	
	2504 Dec 31 02:01	0°♌			2510 Jan 06 19:17	0°♄	
	2505 Mar 01 23:44	0°♁			2510 Mar 03 00:07	0°♂	
retrograde	2505 Apr 19 02:14	11°♁01'42			2510 Apr 21 18:31	0°♄	
desc. node	2505 May 04 08:03	9°♁33'53			2510 Jun 09 12:49	0°♁	
opposition	2505 May 24 14:56	3°♁38'54	0°-57'-7		2510 Jul 27 19:47	0°♎	
greatest brilliancy	2505 May 25 01:38	3°♁29'22	-2.0m	evening set	2510 Aug 27 18:06	19°♎28'13	
min. Earth dist.	2505 Jun 01 18:59	0°♁44'08	0.52263 AU		2510 Sep 13 06:43	0°♊	
	2505 Jun 03 22:24	30°♌		max. Earth dist.	2510 Sep 26 12:35	8°♊30'49	2.64733 AU
direct	2505 Jul 02 17:58	24°♌36'54					
	2505 Aug 01 09:22	0°♁		conjunction	2510 Oct 12 04:12	18°♊40'43	0°39'19
	2505 Sep 28 09:57	0°♄		minimum elong	2510 Oct 12 05:17	18°♊42'27	0°39'18
	2505 Nov 10 17:36	0°♁			2510 Oct 29 09:30	0°♌	
	2505 Dec 20 19:29	0°♁		morning rise	2510 Nov 26 10:26	18°♌47'03	
	2506 Jan 29 06:07	0°♃			2510 Dec 12 20:31	0°♁	
asc. node	2506 Mar 05 18:51	26°♃35'18		desc. node	2510 Dec 25 05:25	8°♁33'25	
	2506 Mar 10 10:04	0°♄			2511 Jan 24 15:28	0°♄	
	2506 Apr 21 02:24	0°♂			2511 Mar 06 23:22	0°♁	
	2506 Jun 03 15:09	0°♄			2511 Apr 16 06:40	0°♁	
evening set	2506 Jun 10 12:23	4°♄37'49			2511 May 26 07:09	0°♃	
	2506 Jul 18 22:09	0°♁			2511 Jul 06 09:29	0°♄	
					2511 Aug 20 15:42	0°♂	
conjunction	2506 Jul 30 21:50	7°♁47'03	1°05'45	asc. node	2511 Oct 26 16:10	27°♂19'37	
minimum elong	2506 Jul 30 21:05	7°♁45'50	1°05'46	retrograde	2511 Nov 02 21:04	27°♂41'36	
max. Earth dist.	2506 Aug 11 17:19	15°♁24'11	2.65133 AU	min. Earth dist.	2511 Dec 03 13:12	21°♂14'00	0.52610 AU
	2506 Sep 03 12:32	0°♎		greatest brilliancy	2511 Dec 10 03:59	18°♂43'59	-2.0m
morning rise	2506 Sep 15 12:17	7°♎37'41		opposition	2511 Dec 11 02:38	18°♂22'28	2°13'03
	2506 Oct 20 21:10	0°♊		direct	2512 Jan 15 03:54	10°♂39'13	
	2506 Dec 07 16:53	0°♌			2512 Mar 21 03:41	0°♄	
	2507 Jan 25 06:46	0°♁			2512 May 17 00:13	0°♁	
	2507 Mar 17 03:47	0°♄			2512 Jul 07 05:00	0°♎	
desc. node	2507 Mar 22 07:38	2°♄52'58			2512 Aug 24 18:57	0°♊	
	2507 May 17 23:10	0°♁		evening set	2512 Oct 03 10:37	25°♊36'32	
retrograde	2507 Jun 24 12:16	7°♁31'19			2512 Oct 10 01:43	0°♌	
opposition	2507 Jul 25 08:10	2°♁14'08	-6°-6'-41	max. Earth dist.	2512 Oct 22 04:37	8°♌06'58	2.56621 AU
greatest brilliancy	2507 Jul 26 21:55	1°♁47'19	-2.7m	desc. node	2512 Nov 11 04:45	21°♌45'40	
min. Earth dist.	2507 Jul 31 01:41	0°♁36'50	0.39648 AU				
	2507 Aug 02 07:22	30°♌		conjunction	2512 Nov 20 02:53	27°♌57'05	0°-5'-16
direct	2507 Aug 26 20:15	26°♌13'59		minimum elong	2512 Nov 20 02:38	27°♌56'40	0°05'17
	2507 Sep 19 19:23	0°♁		behind sun begin	2512 Nov 19 06:56	27°♌22'21	
	2507 Nov 18 06:21	0°♁		behind sun end	2512 Nov 20 22:21	28°♌31'01	
	2508 Jan 02 07:12	0°♃			2512 Nov 23 01:17	0°♁	
asc. node	2508 Jan 21 17:01	13°♃24'00			2513 Jan 03 21:58	0°♄	
	2508 Feb 14 17:12	0°♄		morning rise	2513 Jan 09 17:30	4°♄16'34	
	2508 Mar 29 16:10	0°♂			2513 Feb 13 01:27	0°♁	
	2508 May 13 20:12	0°♄			2513 Mar 24 02:10	0°♁	
	2508 Jun 29 05:07	0°♁			2513 May 01 18:15	0°♃	
evening set	2508 Jul 21 09:55	14°♁10'27			2513 Jun 10 00:16	0°♄	
	2508 Aug 15 07:13	0°♎			2513 Jul 21 01:20	0°♂	
max. Earth dist.	2508 Sep 02 21:58	11°♎49'54	2.67661 AU		2513 Sep 03 21:16	0°♄	
				asc. node	2513 Sep 12 14:04	5°♄20'32	
conjunction	2508 Sep 05 17:24	13°♎37'09	1°04'47		2513 Oct 29 22:49	0°♁	
minimum elong	2508 Sep 05 18:06	13°♎38'16	1°04'47	retrograde	2513 Dec 11 10:45	9°♁53'41	
	2508 Oct 01 09:51	0°♊		min. Earth dist.	2514 Jan 16 09:08	1°♁33'31	0.63212 AU
morning rise	2508 Oct 20 01:39	11°♊58'02		opposition	2514 Jan 20 10:44	29°♄56'03	4°19'10
	2508 Nov 16 22:46	0°♌		greatest brilliancy	2514 Jan 19 13:50	0°♁16'57	-1.4m
	2509 Jan 01 14:38	0°♁			2514 Jan 20 06:47	30°♌	
desc. node	2509 Feb 06 06:21	23°♁50'14		direct	2514 Feb 28 00:23	20°♄52'12	
	2509 Feb 15 09:39	0°♄			2514 Apr 12 05:01	0°♁	
	2509 Mar 31 13:33	0°♁			2514 Jun 14 09:30	0°♎	
	2509 May 14 19:17	0°♁			2514 Aug 05 00:35	0°♊	
	2509 Jun 30 17:00	0°♃			2514 Sep 21 06:01	0°♌	
retrograde	2509 Sep 10 04:49	26°♃27'10		desc. node	2514 Sep 29 03:24	5°♌14'02	

	2514 Nov 04 06:40	0°♁		behind sun begin	2519 May 26 10:16	5°♁09'36	
evening set	2514 Nov 15 23:36	8°♁18'10		behind sun end	2519 May 27 11:45	5°♁55'16	
max. Earth dist.	2514 Nov 30 22:30	19°♁06'20	2.44350 AU		2519 Jun 30 19:20	0°♁	
	2514 Dec 15 17:40	0°♁		max. Earth dist.	2519 Jul 03 21:03	2°♁06'31	2.52728 AU
				morning rise	2519 Jul 22 19:49	14°♁57'14	
conjunction	2515 Jan 09 22:15	18°♁58'23	0°-54'-10		2519 Aug 14 12:35	0°♁	
minimum elong	2515 Jan 09 20:13	18°♁54'32	0°54'10		2519 Sep 30 09:58	0°♁	
	2515 Jan 24 06:58	0°♁			2519 Nov 18 20:55	0°♁	
greatest brilliancy	2515 Feb 21 19:51	22°♁13'43	1.2m		2520 Jan 12 12:38	0°♁	
	2515 Mar 03 17:21	0°♁		retrograde	2520 Mar 30 15:15	24°♁32'47	
morning rise	2515 Mar 14 19:32	8°♁43'43		opposition	2520 May 06 13:59	16°♁32'24	0°37'18
	2515 Apr 10 21:10	0°♁		greatest brilliancy	2520 May 06 20:33	16°♁26'19	-1.7m
	2515 May 19 15:41	0°♁		min. Earth dist.	2520 May 13 18:53	13°♁51'52	0.57089 AU
	2515 Jun 28 22:23	0°♁		desc. node	2520 May 20 23:11	11°♁22'35	
asc. node	2515 Jul 31 13:44	23°♁06'46		direct	2520 Jun 15 23:19	6°♁56'47	
	2515 Aug 10 15:39	0°♁			2520 Aug 24 00:33	0°♁	
	2515 Sep 26 06:12	0°♁			2520 Oct 10 11:59	0°♁	
	2515 Nov 20 21:39	0°♁			2520 Nov 20 19:28	0°♁	
retrograde	2516 Jan 15 04:11	14°♁37'52			2520 Dec 29 23:42	0°♁	
opposition	2516 Feb 24 09:04	4°♁54'00	4°27'12		2521 Feb 06 19:39	0°♁	
greatest brilliancy	2516 Feb 24 07:07	4°♁55'57	-1.2m		2521 Mar 18 10:59	0°♁	
min. Earth dist.	2516 Feb 24 04:33	4°♁58'30	0.67712 AU	asc. node	2521 Mar 22 10:46	2°♁57'47	
	2516 Mar 08 07:42	30°♁			2521 Apr 28 16:03	0°♁	
direct	2516 Apr 05 02:21	25°♁07'10		evening set	2521 May 22 14:06	16°♁48'12	
	2516 May 05 14:39	0°♁			2521 Jun 10 19:25	0°♁	
	2516 Jul 11 16:32	0°♁					
desc. node	2516 Aug 16 01:58	20°♁42'06		conjunction	2521 Jul 14 17:08	22°♁41'35	0°58'11
	2516 Aug 30 22:05	0°♁		minimum elong	2521 Jul 14 15:46	22°♁39'21	0°58'10
	2516 Oct 14 18:41	0°♁			2521 Jul 25 20:10	0°♁	
	2516 Nov 25 07:18	0°♁		max. Earth dist.	2521 Aug 01 22:42	4°♁38'10	2.62677 AU
	2517 Jan 03 15:34	0°♁		morning rise	2521 Sep 01 04:05	24°♁07'16	
evening set	2517 Jan 11 18:20	6°♁19'31			2521 Sep 10 09:21	0°♁	
	2517 Feb 10 20:02	0°♁			2521 Oct 28 01:16	0°♁	
					2521 Dec 15 19:34	0°♁	
conjunction	2517 Mar 19 19:15	29°♁11'26	0°-52'-25		2522 Feb 04 18:59	0°♁	
minimum elong	2517 Mar 19 22:27	29°♁17'44	0°52'25		2522 Apr 04 22:01	0°♁	
	2517 Mar 20 19:59	0°♁		desc. node	2522 Apr 07 22:35	1°♁14'50	
	2517 Apr 28 13:11	0°♁		retrograde	2522 May 26 03:47	12°♁36'39	
max. Earth dist.	2517 May 07 04:16	6°♁32'54	2.39310 AU	opposition	2522 Jun 27 23:06	6°♁28'28	-4°-7'-7
morning rise	2517 May 28 10:00	22°♁24'34		greatest brilliancy	2522 Jun 29 13:51	5°♁57'30	-2.4m
	2517 Jun 07 18:35	0°♁		min. Earth dist.	2522 Jul 05 23:53	3°♁55'40	0.44132 AU
asc. node	2517 Jun 17 13:36	7°♁05'13			2522 Jul 22 00:01	30°♁	
	2517 Jul 20 02:51	0°♁		direct	2522 Aug 02 13:49	29°♁03'11	
	2517 Sep 03 02:30	0°♁			2522 Aug 14 07:56	0°♁	
	2517 Oct 21 14:54	0°♁			2522 Oct 20 03:45	0°♁	
	2517 Dec 16 15:50	0°♁			2522 Dec 03 06:29	0°♁	
retrograde	2518 Feb 18 10:16	17°♁53'15			2523 Jan 13 18:15	0°♁	
opposition	2518 Mar 29 16:19	8°♁47'28	3°16'19	asc. node	2523 Feb 07 09:57	17°♁51'53	
greatest brilliancy	2518 Mar 30 05:58	8°♁34'08	-1.3m		2523 Feb 24 07:54	0°♁	
min. Earth dist.	2518 Apr 02 08:39	7°♁21'11	0.65606 AU		2523 Apr 08 02:05	0°♁	
	2518 Apr 26 06:22	30°♁			2523 May 22 10:29	0°♁	
direct	2518 May 10 04:24	28°♁45'03		evening set	2523 Jul 06 23:43	29°♁48'42	
	2518 May 24 16:56	0°♁			2523 Jul 07 06:43	0°♁	
desc. node	2518 Jul 04 00:43	13°♁05'12					
	2518 Aug 06 02:04	0°♁		conjunction	2523 Aug 23 10:45	0°♁13'10	1°08'22
	2518 Sep 23 05:07	0°♁		minimum elong	2523 Aug 23 10:58	0°♁13'31	1°08'23
	2518 Nov 04 16:49	0°♁			2523 Aug 23 02:29	0°♁	
	2518 Dec 14 07:57	0°♁		max. Earth dist.	2523 Aug 26 02:37	1°♁54'50	2.67330 AU
	2519 Jan 21 15:10	0°♁		morning rise	2523 Oct 07 06:40	28°♁44'56	
	2519 Feb 28 18:36	0°♁			2523 Oct 09 05:47	0°♁	
evening set	2519 Mar 24 11:58	18°♁22'57			2523 Nov 25 03:37	0°♁	
	2519 Apr 08 17:38	0°♁			2524 Jan 10 15:16	0°♁	
asc. node	2519 May 05 12:04	19°♁58'13		desc. node	2524 Feb 23 22:38	28°♁43'51	
	2519 May 19 06:16	0°♁			2524 Feb 25 21:39	0°♁	
					2524 Apr 12 14:58	0°♁	
conjunction	2519 May 26 23:56	5°♁34'06	0°13'44		2524 Jun 01 06:43	0°♁	
minimum elong	2519 May 26 23:00	5°♁32'27	0°13'44	retrograde	2524 Aug 12 21:50	25°♁32'22	

min. Earth dist.	2524 Sep 10 03:44	20°♄55'48	0.37364 AU	desc. node	2529 Oct 15 18:41	11°♄38'31	
opposition	2524 Sep 12 12:03	20°♄18'01	-6°-6'-10	evening set	2529 Oct 28 22:10	20°♄38'01	
greatest brilliancy	2524 Sep 12 01:33	20°♄25'04	-2.9m		2529 Nov 11 08:53	0°♄	
direct	2524 Oct 11 21:25	15°♄23'37		max. Earth dist.	2529 Nov 12 11:54	0°♄47'29	2.49468 AU
	2524 Dec 03 00:19	0°♄					
asc. node	2524 Dec 25 08:21	11°♄40'38		conjunction	2529 Dec 19 05:24	27°♄14'56	0°-36'-51
	2525 Jan 25 10:30	0°♄		minimum elong	2529 Dec 19 03:45	27°♄11'55	0°36'51
	2525 Mar 14 06:45	0°♄			2529 Dec 22 22:51	0°♄	
	2525 Apr 30 12:46	0°♄			2530 Jan 31 16:48	0°♄	
	2525 Jun 17 02:16	0°♄		morning rise	2530 Feb 14 21:23	10°♄57'08	
	2525 Aug 03 19:07	0°♄			2530 Mar 11 07:46	0°♄	
evening set	2525 Aug 13 11:04	6°♄05'50			2530 Apr 18 15:16	0°♄	
max. Earth dist.	2525 Sep 17 05:49	28°♄11'50	2.66539 AU		2530 May 27 12:36	0°♄	
	2525 Sep 20 01:22	0°♄			2530 Jul 06 23:04	0°♄	
				asc. node	2530 Aug 17 06:25	28°♄45'34	
conjunction	2525 Sep 27 21:01	5°♄01'11	0°51'45		2530 Aug 19 03:04	0°♄	
minimum elong	2525 Sep 27 22:07	5°♄02'56	0°51'45		2530 Oct 06 08:30	0°♄	
	2525 Nov 05 06:45	0°♄			2530 Dec 15 22:20	0°♄	
morning rise	2525 Nov 11 08:31	4°♄00'26		retrograde	2531 Jan 01 21:06	1°♄43'50	
	2525 Dec 20 02:54	0°♄			2531 Jan 17 22:14	30°♄	
desc. node	2526 Jan 10 21:03	14°♄54'56		min. Earth dist.	2531 Feb 09 10:01	22°♄32'21	0.66717 AU
	2526 Feb 01 12:41	0°♄		opposition	2531 Feb 11 03:03	21°♄51'15	4°34'19
	2526 Mar 15 15:44	0°♄		greatest brilliancy	2531 Feb 10 17:20	22°♄01'00	-1.3m
	2526 Apr 25 21:41	0°♄		direct	2531 Mar 23 03:28	12°♄18'01	
	2526 Jun 06 03:13	0°♄			2531 May 26 05:29	0°♄	
	2526 Jul 19 10:54	0°♄			2531 Jul 22 04:30	0°♄	
	2526 Sep 12 01:53	0°♄		desc. node	2531 Sep 02 17:32	26°♄03'38	
retrograde	2526 Oct 15 10:43	7°♄10'36			2531 Sep 08 20:12	0°♄	
asc. node	2526 Nov 12 07:47	1°♄47'36			2531 Oct 23 06:25	0°♄	
min. Earth dist.	2526 Nov 12 22:09	1°♄35'11	0.47342 AU		2531 Dec 03 17:22	0°♄	
	2526 Nov 17 09:33	30°♄		evening set	2531 Dec 18 22:39	11°♄26'39	
opposition	2526 Nov 21 04:49	28°♄38'03	0°29'43		2532 Jan 12 02:48	0°♄	
greatest brilliancy	2526 Nov 20 22:27	28°♄43'44	-2.3m	max. Earth dist.	2532 Jan 31 03:42	14°♄51'53	2.37357 AU
direct	2526 Dec 24 10:10	21°♄42'06					
	2527 Feb 01 18:50	0°♄		conjunction	2532 Feb 19 14:04	0°♄10'39	-1°-4'-17
	2527 Apr 04 20:29	0°♄		minimum elong	2532 Feb 19 14:53	0°♄12'16	1°04'17
	2527 May 27 00:31	0°♄			2532 Feb 19 08:40	0°♄	
	2527 Jul 15 17:56	0°♄			2532 Mar 28 09:09	0°♄	
	2527 Sep 01 18:41	0°♄		morning rise	2532 Apr 30 12:18	25°♄44'47	
evening set	2527 Sep 19 11:10	11°♄20'30			2532 May 06 01:41	0°♄	
max. Earth dist.	2527 Oct 12 04:46	26°♄11'43	2.60386 AU		2532 Jun 15 05:56	0°♄	
	2527 Oct 17 22:37	0°♄		asc. node	2532 Jul 04 05:05	13°♄38'49	
					2532 Jul 27 15:03	0°♄	
conjunction	2527 Nov 04 19:19	11°♄58'40	0°13'48		2532 Sep 10 23:05	0°♄	
minimum elong	2527 Nov 04 19:49	11°♄59'31	0°13'48		2532 Oct 30 22:25	0°♄	
behind sun begin	2527 Nov 04 09:26	11°♄41'58			2533 Jan 04 17:52	0°♄	
behind sun end	2527 Nov 05 06:12	12°♄17'05		retrograde	2533 Feb 04 08:50	5°♄01'27	
desc. node	2527 Nov 28 19:40	28°♄26'16			2533 Mar 04 11:55	30°♄	
	2527 Dec 01 01:37	0°♄		opposition	2533 Mar 16 03:02	25°♄38'11	3°52'46
morning rise	2527 Dec 22 13:58	15°♄08'27		greatest brilliancy	2533 Mar 16 11:52	25°♄29'28	-1.2m
	2528 Jan 12 05:47	0°♄		min. Earth dist.	2533 Mar 18 07:17	24°♄46'36	0.67215 AU
	2528 Feb 21 18:40	0°♄		direct	2533 Apr 26 11:46	15°♄38'24	
	2528 Apr 01 04:54	0°♄			2533 Jun 21 02:41	0°♄	
	2528 May 10 06:03	0°♄		desc. node	2533 Jul 20 16:00	14°♄36'53	
	2528 Jun 18 22:13	0°♄			2533 Aug 16 10:15	0°♄	
	2528 Jul 30 18:04	0°♄			2533 Oct 01 18:01	0°♄	
	2528 Sep 16 02:14	0°♄			2533 Nov 12 17:18	0°♄	
asc. node	2528 Sep 29 07:44	7°♄08'48			2533 Dec 22 04:15	0°♄	
retrograde	2528 Nov 27 00:34	24°♄59'35			2534 Jan 29 09:16	0°♄	
min. Earth dist.	2528 Dec 31 00:10	17°♄19'07	0.59685 AU	greatest brilliancy	2534 Feb 15 08:03	13°♄23'47	1.2m
greatest brilliancy	2529 Jan 04 11:28	15°♄33'07	-1.6m	evening set	2534 Feb 24 10:26	20°♄34'32	
opposition	2529 Jan 05 13:13	15°♄07'35	3°48'52		2534 Mar 08 10:18	0°♄	
direct	2529 Feb 11 21:38	6°♄29'42			2534 Apr 16 05:51	0°♄	
	2529 Apr 28 18:40	0°♄					
	2529 Jun 23 14:00	0°♄		conjunction	2534 May 02 18:06	12°♄26'25	0°-12'-43
	2529 Aug 12 15:42	0°♄		minimum elong	2534 May 02 19:10	12°♄28'24	0°12'43
	2529 Sep 28 09:47	0°♄		behind sun begin	2534 May 02 02:21	11°♄57'01	

behind sun end	2534 May 03 11:58	12°♃59'45		opposition	2539 Aug 11 16:44	19°♁04'34	-6°-44'-59
asc. node	2534 May 22 05:02	26°♃48'35		greatest brilliancy	2539 Aug 12 17:28	18°♁47'49	-2.8m
	2534 May 26 14:12	0°♂		min. Earth dist.	2539 Aug 14 22:56	18°♁11'39	0.38013 AU
max. Earth dist.	2534 Jun 18 03:13	16°♂08'52	2.47605 AU	direct	2539 Sep 11 15:51	13°♁43'41	
morning rise	2534 Jul 03 14:42	26°♂58'34			2539 Nov 04 13:49	0°♃	
	2534 Jul 07 23:42	0°♄			2539 Dec 24 20:01	0°♃	
	2534 Aug 21 16:45	0°♅		asc. node	2540 Jan 12 01:25	11°♃57'47	
	2534 Oct 07 23:22	0°♆			2540 Feb 08 01:25	0°♃	
	2534 Nov 27 21:43	0°♇			2540 Mar 23 22:52	0°♂	
	2535 Jan 28 17:52	0°♈			2540 May 08 16:25	0°♄	
retrograde	2535 Mar 14 10:24	9°♈40'27			2540 Jun 24 09:25	0°♅	
opposition	2535 Apr 21 11:24	1°♈10'12	1°51'40	evening set	2540 Jul 29 22:50	22°♅34'40	
greatest brilliancy	2535 Apr 22 01:41	0°♈56'35	-1.5m		2540 Aug 10 15:52	0°♆	
	2535 Apr 24 12:53	30°♈♁		max. Earth dist.	2540 Sep 08 03:33	18°♆05'17	2.67497 AU
min. Earth dist.	2535 Apr 27 09:36	28°♈54'39	0.61133 AU				
direct	2535 Jun 01 14:02	21°♈16'29		conjunction	2540 Sep 13 19:36	21°♆41'57	1°00'59
desc. node	2535 Jun 07 15:16	21°♈30'31		minimum elong	2540 Sep 13 20:29	21°♆43'22	1°00'59
	2535 Jul 11 19:36	0°♈			2540 Sep 26 19:31	0°♇	
	2535 Sep 07 00:19	0°♉		morning rise	2540 Oct 28 01:36	20°♇07'53	
	2535 Oct 21 10:45	0°♊			2540 Nov 12 05:24	0°♈	
	2535 Nov 30 19:16	0°♋			2540 Dec 27 13:31	0°♉	
	2536 Jan 08 11:44	0°♌		desc. node	2541 Jan 27 12:22	20°♉55'22	
	2536 Feb 15 22:50	0°♍			2541 Feb 09 18:51	0°♊	
	2536 Mar 26 05:47	0°♎			2541 Mar 25 01:25	0°♋	
asc. node	2536 Apr 08 03:02	9°♎36'16			2541 May 06 20:51	0°♌	
evening set	2536 May 01 09:16	26°♎36'16			2541 Jun 19 15:09	0°♍	
	2536 May 06 02:34	0°♏			2541 Aug 09 07:16	0°♎	
	2536 Jun 17 22:43	0°♐		retrograde	2541 Sep 23 23:04	12°♎40'15	
				min. Earth dist.	2541 Oct 20 20:08	7°♎51'05	0.42251 AU
conjunction	2536 Jun 27 01:17	6°♐12'02	0°45'22	opposition	2541 Oct 28 13:09	5°♎21'00	-1°-56'-26
minimum elong	2536 Jun 26 23:33	6°♐09'06	0°45'21	greatest brilliancy	2541 Oct 27 18:52	5°♎35'52	-2.6m
max. Earth dist.	2536 Jul 22 07:30	23°♐06'28	2.59381 AU		2541 Nov 18 23:51	30°♎♃	
	2536 Aug 01 18:41	0°♑		direct	2541 Nov 28 19:38	29°♃20'29	
morning rise	2536 Aug 17 01:32	9°♑57'35		asc. node	2541 Nov 29 01:06	29°♃20'30	
	2536 Sep 17 08:34	0°♒			2541 Dec 08 22:28	0°♃	
	2536 Nov 04 11:43	0°♓			2542 Feb 22 10:21	0°♄	
	2536 Dec 24 16:13	0°♈			2542 Apr 15 14:35	0°♅	
	2537 Feb 18 04:29	0°♉			2542 Jun 04 07:07	0°♆	
desc. node	2537 Apr 24 14:30	21°♉32'28			2542 Jul 23 00:26	0°♆	
retrograde	2537 May 01 09:03	21°♉48'53		evening set	2542 Sep 04 23:13	27°♆38'30	
opposition	2537 Jun 04 23:33	14°♉50'08	-2°00'-55		2542 Sep 08 15:55	0°♇	
greatest brilliancy	2537 Jun 05 21:52	14°♉30'48	-2.1m	max. Earth dist.	2542 Oct 02 03:48	15°♇08'22	2.63410 AU
min. Earth dist.	2537 Jun 13 09:36	11°♉55'32	0.49396 AU				
direct	2537 Jul 13 02:10	6°♉15'13		conjunction	2542 Oct 20 13:45	27°♇12'18	0°30'41
	2537 Sep 18 21:09	0°♊		minimum elong	2542 Oct 20 14:41	27°♇13'51	0°30'41
	2537 Nov 03 16:09	0°♋			2542 Oct 24 19:11	0°♈	
	2537 Dec 14 14:48	0°♌		morning rise	2542 Dec 05 12:09	28°♈10'35	
	2538 Jan 23 13:21	0°♍			2542 Dec 08 03:34	0°♉	
asc. node	2538 Feb 24 01:20	23°♍23'43		desc. node	2542 Dec 15 10:58	5°♉03'58	
	2538 Mar 05 01:53	0°♎			2543 Jan 19 17:10	0°♊	
	2538 Apr 16 00:58	0°♏			2543 Mar 01 17:50	0°♋	
	2538 May 29 19:08	0°♐			2543 Apr 10 16:25	0°♌	
evening set	2538 Jun 20 13:15	14°♐29'10			2543 May 20 06:29	0°♍	
	2538 Jul 14 05:41	0°♑			2543 Jun 29 15:53	0°♎	
					2543 Aug 12 01:36	0°♏	
conjunction	2538 Aug 08 17:05	16°♑27'16	1°07'59		2543 Oct 05 20:33	0°♐	
minimum elong	2538 Aug 08 16:43	16°♑26'40	1°07'59	asc. node	2543 Oct 16 23:17	4°♐01'18	
max. Earth dist.	2538 Aug 17 04:01	21°♑52'28	2.66162 AU	retrograde	2543 Nov 12 11:27	8°♐29'57	
	2538 Aug 29 21:13	0°♒		min. Earth dist.	2543 Dec 14 08:42	1°♐34'34	0.55330 AU
morning rise	2538 Sep 23 12:25	15°♒39'59			2543 Dec 18 10:56	30°♒♂	
	2538 Oct 16 03:11	0°♓		greatest brilliancy	2543 Dec 20 04:12	29°♂19'53	-1.8m
	2538 Dec 02 13:29	0°♈		opposition	2543 Dec 21 06:19	28°♂54'34	2°56'29
	2539 Jan 19 05:28	0°♉		direct	2544 Jan 26 04:41	20°♂49'23	
	2539 Mar 08 21:37	0°♊			2544 Mar 08 17:53	0°♃	
desc. node	2539 Mar 12 13:32	2°♊12'15			2544 May 10 11:08	0°♄	
	2539 Apr 30 09:27	0°♋			2544 Jul 01 22:09	0°♅	
retrograde	2539 Jul 12 12:21	24°♋04'34			2544 Aug 19 23:24	0°♆	

	2544 Oct 05 10:05	0°♌		morning rise	2549 Jun 11 13:34	6°♐15'13	
evening set	2544 Oct 12 09:33	4°♌39'05			2549 Jul 15 05:50	0°♄	
max. Earth dist.	2544 Oct 29 09:26	16°♌08'56	2.54235 AU		2549 Aug 29 01:12	0°♌	
desc. node	2544 Nov 01 09:53	18°♌12'57			2549 Oct 15 23:00	0°♎	
	2544 Nov 18 09:50	0°♊			2549 Dec 08 09:29	0°♋	
				retrograde	2550 Feb 26 20:24	25°♌55'09	
conjunction	2544 Nov 30 02:56	8°♊15'47	0°-16'-52	opposition	2550 Apr 06 17:28	17°♌00'48	2°49'05
minimum elong	2544 Nov 30 02:12	8°♊14'28	0°16'53	greatest brilliancy	2550 Apr 07 08:28	16°♌46'14	-1.4m
	2544 Dec 30 04:30	0°♄		min. Earth dist.	2550 Apr 11 05:15	15°♌16'13	0.64294 AU
morning rise	2545 Jan 21 19:40	16°♄49'59		direct	2550 May 18 04:02	6°♌59'25	
	2545 Feb 08 04:54	0°♁		desc. node	2550 Jun 24 06:29	14°♌18'12	
	2545 Mar 19 02:03	0°♋			2550 Jul 29 05:04	0°♌	
	2545 Apr 26 14:40	0°♎			2550 Sep 17 07:37	0°♊	
	2545 Jun 04 16:30	0°♉			2550 Oct 30 08:47	0°♄	
	2545 Jul 15 09:48	0°♐			2550 Dec 09 05:21	0°♁	
	2545 Aug 28 09:06	0°♄			2551 Jan 16 15:10	0°♋	
asc. node	2545 Sep 02 22:51	3°♄34'00			2551 Feb 23 20:26	0°♎	
	2545 Oct 18 23:04	0°♌			2551 Apr 03 21:09	0°♉	
retrograde	2545 Dec 19 09:38	18°♌20'53		evening set	2551 Apr 08 07:38	3°♉20'42	
min. Earth dist.	2546 Jan 25 07:03	9°♌41'08	0.64729 AU	asc. node	2551 Apr 25 19:45	16°♉23'14	
opposition	2546 Jan 28 12:36	8°♌23'27	4°29'01		2551 May 14 11:14	0°♐	
greatest brilliancy	2546 Jan 27 19:21	8°♌40'45	-1.4m				
	2546 Feb 25 01:26	30°♌07'50		conjunction	2551 Jun 08 08:16	17°♐42'09	0°26'54
direct	2546 Mar 08 15:26	29°♌07'50		minimum elong	2551 Jun 08 06:45	17°♐39'28	0°26'53
	2546 Mar 20 20:07	0°♌			2551 Jun 26 01:28	0°♄	
	2546 Jun 07 15:11	0°♎		max. Earth dist.	2551 Jul 11 13:35	10°♄33'59	2.55281 AU
	2546 Jul 30 16:52	0°♋		morning rise	2551 Aug 01 19:57	24°♄46'41	
	2546 Sep 16 09:13	0°♌			2551 Aug 09 18:13	0°♌	
desc. node	2546 Sep 19 09:08	1°♌58'08			2551 Sep 25 11:16	0°♎	
	2546 Oct 30 13:17	0°♊			2551 Nov 13 07:20	0°♋	
evening set	2546 Nov 27 04:44	19°♊48'50			2552 Jan 04 18:39	0°♌	
	2546 Dec 11 00:25	0°♄			2552 Mar 13 10:40	0°♊	
max. Earth dist.	2546 Dec 15 09:56	3°♄16'36	2.41493 AU	retrograde	2552 Apr 10 08:54	4°♊09'10	
	2547 Jan 19 12:28	0°♁			2552 May 06 05:04	30°♌	
				desc. node	2552 May 11 05:15	28°♌22'08	
conjunction	2547 Jan 23 16:50	3°♁14'23	-1°-1'-10	opposition	2552 May 16 13:22	26°♌28'29	0°-14'-27
minimum elong	2547 Jan 23 15:15	3°♁11'20	1°01'10	greatest brilliancy	2552 May 04 04:40	0°♊36'02	-1.9m
	2547 Feb 26 21:08	0°♋		min. Earth dist.	2552 May 24 07:45	23°♌38'40	0.54506 AU
morning rise	2547 Mar 31 23:25	26°♋04'25		direct	2552 Jun 25 07:13	17°♌09'03	
	2547 Apr 05 23:31	0°♎			2552 Aug 12 17:41	0°♊	
	2547 May 14 16:49	0°♉			2552 Oct 03 09:03	0°♄	
	2547 Jun 23 21:31	0°♐			2552 Nov 14 17:00	0°♁	
asc. node	2547 Jul 21 21:51	19°♐59'15			2552 Dec 24 08:11	0°♋	
	2547 Aug 05 10:00	0°♄			2553 Feb 01 11:13	0°♎	
	2547 Sep 20 08:53	0°♌		asc. node	2553 Mar 12 18:59	29°♎35'26	
	2547 Nov 12 00:00	0°♎			2553 Mar 13 08:15	0°♉	
retrograde	2548 Jan 22 19:54	22°♎21'15			2553 Apr 23 17:56	0°♐	
opposition	2548 Mar 02 21:46	12°♎43'50	4°17'41	evening set	2553 Jun 02 14:13	27°♐39'20	
greatest brilliancy	2548 Mar 02 23:56	12°♎41'41	-1.2m		2553 Jun 06 01:05	0°♄	
min. Earth dist.	2548 Mar 03 13:25	12°♎28'16	0.67825 AU		2553 Jul 21 03:55	0°♌	
direct	2548 Apr 12 21:34	2°♎51'15					
	2548 Jul 04 15:44	0°♋		conjunction	2553 Jul 24 02:50	1°♌55'42	1°03'10
desc. node	2548 Aug 06 08:12	18°♋18'54		minimum elong	2553 Jul 24 01:50	1°♌54'03	1°03'10
	2548 Aug 25 10:53	0°♌		max. Earth dist.	2553 Aug 07 17:04	11°♌24'01	2.64135 AU
	2548 Oct 09 18:36	0°♊			2553 Sep 05 16:53	0°♎	
	2548 Nov 20 10:52	0°♄		morning rise	2553 Sep 09 11:14	2°♎23'52	
	2548 Dec 29 20:00	0°♁			2553 Oct 23 03:58	0°♋	
evening set	2549 Jan 27 00:44	22°♁06'42			2553 Dec 10 08:15	0°♌	
	2549 Feb 06 00:13	0°♋			2554 Jan 28 19:13	0°♊	
	2549 Mar 15 23:53	0°♎			2554 Mar 23 03:09	0°♄	
				desc. node	2554 Mar 29 04:44	3°♄06'29	
conjunction	2549 Apr 05 07:51	15°♎52'06	0°-39'-43	retrograde	2554 Jun 11 01:35	26°♄30'15	
minimum elong	2549 Apr 05 11:01	15°♎58'13	0°39'42	opposition	2554 Jul 12 18:15	20°♄51'39	-5°-18'-49
	2549 Apr 23 17:03	0°♉		greatest brilliancy	2554 Jul 14 12:00	20°♄20'23	-2.6m
max. Earth dist.	2549 May 27 05:50	25°♉06'25	2.42173 AU	min. Earth dist.	2554 Jul 19 21:00	18°♄44'37	0.41478 AU
	2549 Jun 02 22:22	0°♐		direct	2554 Aug 15 16:46	14°♄13'17	
asc. node	2549 Jun 07 19:55	3°♐33'23			2554 Oct 07 01:32	0°♁	

	2554 Nov 24 21:33	0°♁		desc. node	2559 Nov 19 02:05	24°♌53'29	
	2555 Jan 06 22:45	0°♂			2559 Nov 26 10:39	0°♁	
asc. node	2555 Jan 28 17:15	15°♂25'33		morning rise	2560 Jan 02 03:07	26°♁06'32	
	2555 Feb 18 09:13	0°♂			2560 Jan 07 11:26	0°♁	
	2555 Apr 02 16:50	0°♂			2560 Feb 16 19:40	0°♁	
	2555 May 17 10:33	0°♁			2560 Mar 27 00:36	0°♁	
evening set	2555 Jul 02 12:37	0°♁			2560 May 04 20:10	0°♂	
	2555 Jul 15 22:03	8°♁35'42			2560 Jun 13 05:27	0°♂	
	2555 Aug 18 11:20	0°♁			2560 Jul 24 11:41	0°♂	
conjunction	2555 Aug 31 16:21	8°♁24'10	1°06'44	asc. node	2560 Sep 08 00:52	0°♁	
minimum elong	2555 Aug 31 16:51	8°♁24'59	1°06'43		2560 Sep 19 14:10	6°♁49'41	
max. Earth dist.	2555 Aug 31 07:08	8°♁09'32	2.67612 AU	retrograde	2560 Nov 09 08:17	0°♁	
	2555 Oct 04 14:08	0°♁			2560 Dec 05 09:52	4°♁07'20	
morning rise	2555 Oct 15 04:15	6°♁46'09			2560 Dec 29 17:59	30°♁	
	2555 Nov 20 06:55	0°♌		min. Earth dist.	2561 Jan 09 11:49	26°♁03'56	0.61761 AU
	2556 Jan 05 07:24	0°♁		greatest brilliancy	2561 Jan 13 05:40	24°♁34'28	-1.5m
desc. node	2556 Feb 14 03:32	26°♁18'55		opposition	2561 Jan 14 05:10	24°♁11'01	4°08'59
	2556 Feb 19 16:45	0°♁		direct	2561 Feb 21 05:49	15°♁18'01	
	2556 Apr 04 19:36	0°♁			2561 Apr 19 06:35	0°♁	
	2556 May 20 18:02	0°♁			2561 Jun 17 15:23	0°♁	
	2556 Jul 11 16:04	0°♂			2561 Aug 07 14:28	0°♁	
retrograde	2556 Aug 29 11:04	13°♂41'09		desc. node	2561 Sep 23 16:05	0°♌	
min. Earth dist.	2556 Sep 25 08:03	9°♂13'48	0.38406 AU		2561 Oct 06 00:53	8°♌13'49	
greatest brilliancy	2556 Sep 29 07:59	8°♂05'36	-2.8m	evening set	2561 Nov 06 17:29	0°♁	
opposition	2556 Sep 30 06:03	7°♂49'49	-4°-47'-22	max. Earth dist.	2561 Nov 07 22:16	0°♁50'35	
direct	2556 Oct 30 00:59	2°♂41'00			2561 Nov 22 06:18	11°♁01'33	2.46674 AU
asc. node	2556 Dec 15 16:50	14°♂33'17			2561 Dec 18 06:52	0°♁	
	2557 Jan 15 10:27	0°♂		conjunction	2561 Dec 31 02:17	9°♁33'16	0°-47'-18
	2557 Mar 07 10:01	0°♂		minimum elong	2561 Dec 31 00:18	9°♁29'34	0°47'18
	2557 Apr 24 21:30	0°♁			2562 Jan 26 23:03	0°♁	
	2557 Jun 12 01:30	0°♁		morning rise	2562 Mar 02 02:53	26°♁34'32	
	2557 Jul 30 01:53	0°♁			2562 Mar 06 11:38	0°♁	
evening set	2557 Aug 21 15:43	14°♁13'12			2562 Apr 13 16:43	0°♂	
	2557 Sep 15 11:04	0°♁		greatest brilliancy	2562 Apr 15 23:31	1°♂47'07	1.2m
max. Earth dist.	2557 Sep 22 13:50	4°♁33'51	2.65641 AU		2562 May 22 11:37	0°♂	
					2562 Jul 01 18:18	0°♂	
conjunction	2557 Oct 06 00:31	13°♁14'33	0°44'52	asc. node	2562 Aug 07 13:41	25°♂56'03	
minimum elong	2557 Oct 06 01:37	13°♁16'20	0°44'52		2562 Aug 13 13:38	0°♁	
	2557 Oct 31 15:29	0°♌			2562 Sep 29 14:55	0°♁	
morning rise	2557 Nov 19 20:39	12°♌46'36			2562 Nov 27 07:56	0°♁	
	2557 Dec 15 07:14	0°♁		retrograde	2563 Jan 09 13:09	9°♁38'19	
desc. node	2558 Jan 01 02:29	11°♁34'32		opposition	2563 Feb 18 18:32	29°♁50'03	4°31'36
	2558 Jan 27 09:05	0°♁		min. Earth dist.	2563 Feb 17 21:46	0°♁10'50	0.67399 AU
	2558 Mar 10 01:35	0°♁			2563 Feb 18 08:36	30°♁	
	2558 Apr 19 18:07	0°♁		greatest brilliancy	2563 Feb 18 13:10	29°♁55'26	-1.2m
	2558 May 30 05:24	0°♂		direct	2563 Mar 31 04:18	20°♁08'48	
	2558 Jul 11 00:32	0°♂			2563 May 15 12:00	0°♁	
	2558 Aug 27 10:59	0°♂			2563 Jul 16 02:35	0°♁	
retrograde	2558 Oct 26 05:52	19°♂38'51		desc. node	2563 Aug 23 23:13	23°♁12'19	
asc. node	2558 Nov 02 16:24	19°♂14'24			2563 Sep 03 16:17	0°♌	
min. Earth dist.	2558 Nov 24 21:40	13°♂34'10	0.50291 AU		2563 Oct 18 09:49	0°♁	
opposition	2558 Dec 02 20:41	10°♂37'33	1°33'59		2563 Nov 28 22:50	0°♁	
greatest brilliancy	2558 Dec 02 02:57	10°♂54'01	-2.1m	evening set	2564 Jan 01 12:45	25°♁29'32	
direct	2559 Jan 06 03:25	3°♂14'03			2564 Jan 07 08:30	0°♁	
	2559 Mar 27 17:14	0°♁			2564 Feb 14 13:49	0°♁	
	2559 May 21 04:39	0°♁					
	2559 Jul 10 17:17	0°♁		conjunction	2564 Mar 06 20:42	16°♁49'50	0°-59'-26
	2559 Aug 28 02:01	0°♁		minimum elong	2564 Mar 06 23:08	16°♁54'40	0°59'25
evening set	2559 Sep 27 22:08	19°♁50'16			2564 Mar 23 13:43	0°♂	
	2559 Oct 13 08:26	0°♌		max. Earth dist.	2564 Apr 08 20:01	12°♂42'59	2.37478 AU
max. Earth dist.	2559 Oct 18 10:24	3°♌22'59	2.58397 AU		2564 May 01 05:54	0°♂	
				morning rise	2564 May 16 16:06	11°♁41'16	
conjunction	2559 Nov 13 22:07	21°♌19'47	0°03'03		2564 Jun 10 09:27	0°♂	
minimum elong	2559 Nov 13 22:15	21°♌20'01	0°03'04	asc. node	2564 Jun 24 13:46	10°♂15'05	
behind sun begin	2559 Nov 13 02:20	20°♌45'50			2564 Jul 22 16:19	0°♁	
behind sun end	2559 Nov 14 18:10	21°♌54'14			2564 Sep 05 17:05	0°♁	

	2564 Oct 24 15:46	0°♍			2569 Oct 26 12:13	0°♁		
	2564 Dec 22 04:07	0°♌			2569 Dec 07 21:50	0°♁		
retrograde	2565 Feb 12 08:37	12°♌49'23			2570 Jan 17 13:53	0°♍		
opposition	2565 Mar 23 20:15	3°♌35'19	3°32'46	asc. node	2570 Feb 14 10:20	20°♍27'11		
greatest brilliancy	2565 Mar 24 07:59	3°♌23'47	-1.3m		2570 Feb 27 14:14	0°♌		
min. Earth dist.	2565 Mar 26 20:23	2°♌24'25	0.66458 AU		2570 Apr 10 21:57	0°♌		
	2565 Apr 02 03:12	30°♌			2570 May 24 22:24	0°♌		
direct	2565 May 04 06:59	23°♌33'20		evening set	2570 Jun 30 01:32	23°♌50'10		
	2565 Jun 08 08:29	0°♌			2570 Jul 09 13:03	0°♌		
desc. node	2565 Jul 10 22:04	13°♌43'06						
	2565 Aug 09 23:33	0°♌		conjunction	2570 Aug 17 05:04	24°♌51'44	1°08'42	
	2565 Sep 26 08:03	0°♌		minimum elong	2570 Aug 17 05:03	24°♌51'43	1°08'42	
	2565 Nov 07 15:12	0°♌		max. Earth dist.	2570 Aug 22 11:37	28°♌13'40	2.66912 AU	
	2565 Dec 17 05:12	0°♌			2570 Aug 25 06:19	0°♌		
	2566 Jan 24 11:29	0°♌		morning rise	2570 Oct 01 09:50	23°♌37'49		
	2566 Mar 03 13:22	0°♌			2570 Oct 11 10:24	0°♌		
evening set	2566 Mar 12 10:25	6°♌55'48			2570 Nov 27 13:26	0°♌		
	2566 Apr 11 10:01	0°♌			2571 Jan 13 12:34	0°♌		
asc. node	2566 May 12 12:11	23°♌12'43			2571 Mar 01 16:25	0°♌		
				desc. node	2571 Mar 02 19:49	0°♌43'13		
conjunction	2566 May 16 20:35	26°♌23'41	0°02'52		2571 Apr 19 05:52	0°♌		
minimum elong	2566 May 16 20:24	26°♌23'21	0°02'52		2571 Jun 13 22:49	0°♌		
behind sun begin	2566 May 15 18:36	25°♌36'16		retrograde	2571 Jul 30 22:27	11°♌58'47		
behind sun end	2566 May 17 22:12	27°♌10'22		opposition	2571 Aug 30 01:56	6°♌59'42	-6°-41'-29	
	2566 May 21 19:28	0°♌		greatest brilliancy	2571 Aug 30 06:45	6°♌56'32	-2.9m	
max. Earth dist.	2566 Jun 27 15:05	26°♌07'35	2.50503 AU	min. Earth dist.	2571 Aug 30 05:48	6°♌57'10	0.37238 AU	
	2566 Jul 03 05:31	0°♌		direct	2571 Sep 28 19:11	2°♌02'29		
morning rise	2566 Jul 14 19:53	7°♌56'28			2571 Dec 14 02:35	0°♌		
	2566 Aug 16 21:03	0°♌		asc. node	2572 Jan 02 08:45	11°♌32'01		
	2566 Oct 02 20:33	0°♌			2572 Jan 31 14:40	0°♌		
	2566 Nov 21 18:51	0°♌			2572 Mar 17 21:36	0°♌		
	2567 Jan 17 12:12	0°♌			2572 May 03 08:58	0°♌		
retrograde	2567 Mar 24 00:11	18°♌27'48			2572 Jun 19 12:07	0°♌		
opposition	2567 Apr 30 11:04	10°♌13'13	1°10'41		2572 Aug 05 23:59	0°♌		
greatest brilliancy	2567 Apr 30 21:54	10°♌03'02	-1.6m	evening set	2572 Aug 07 06:57	0°♌48'56		
min. Earth dist.	2567 May 07 02:19	7°♌43'14	0.59014 AU	max. Earth dist.	2572 Sep 13 09:14	24°♌21'24	2.67078 AU	
desc. node	2567 May 28 20:43	1°♌29'15						
direct	2567 Jun 10 05:00	0°♌27'48		conjunction	2572 Sep 21 20:19	29°♌45'50	0°56'00	
	2567 Aug 30 09:35	0°♌		minimum elong	2572 Sep 21 21:21	29°♌47'29	0°55'59	
	2567 Oct 15 09:01	0°♌			2572 Sep 22 05:10	0°♌		
	2567 Nov 25 06:12	0°♌		morning rise	2572 Nov 05 03:45	28°♌26'06		
	2568 Jan 03 04:50	0°♌			2572 Nov 07 13:03	0°♌		
	2568 Feb 10 19:58	0°♌			2572 Dec 22 15:04	0°♌		
asc. node	2568 Mar 21 06:25	0°♌		desc. node	2573 Jan 17 18:24	17°♌48'35		
	2568 Mar 29 10:48	6°♌05'39			2573 Feb 04 09:36	0°♌		
	2568 May 01 06:17	0°♌			2573 Mar 19 00:19	0°♌		
evening set	2568 May 13 17:16	8°♌50'57			2573 Apr 29 20:33	0°♌		
	2568 Jun 13 04:58	0°♌			2573 Jun 10 22:21	0°♌		
					2573 Jul 26 02:32	0°♌		
conjunction	2568 Jul 07 07:42	16°♌16'04	0°53'26	retrograde	2573 Oct 06 14:12	27°♌30'49		
minimum elong	2568 Jul 07 06:09	16°♌13'28	0°53'26	min. Earth dist.	2573 Nov 03 04:28	22°♌18'05	0.44981 AU	
	2568 Jul 28 02:14	0°♌		opposition	2573 Nov 11 10:47	19°♌27'58	0°-27'-43	
max. Earth dist.	2568 Jul 28 12:48	0°♌17'18	2.61300 AU	greatest brilliancy	2573 Nov 11 05:32	19°♌32'28	-2.4m	
morning rise	2568 Aug 25 19:32	18°♌37'48		asc. node	2573 Nov 19 07:43	16°♌53'22		
	2568 Sep 12 14:41	0°♌		direct	2573 Dec 13 19:28	12°♌56'11		
	2568 Oct 30 10:12	0°♌			2574 Feb 11 12:30	0°♌		
	2568 Dec 18 16:48	0°♌			2574 Apr 08 21:26	0°♌		
desc. node	2569 Feb 09 04:06	0°♌			2574 May 29 20:31	0°♌		
	2569 Apr 14 19:43	28°♌46'40			2574 Jul 18 03:05	0°♌		
	2569 Apr 19 05:00	0°♌		evening set	2574 Sep 04 00:12	0°♌		
retrograde	2569 May 14 19:27	3°♌36'24		max. Earth dist.	2574 Sep 13 05:20	5°♌53'27		
	2569 Jun 08 02:25	30°♌			2574 Oct 07 22:46	21°♌55'32	2.61841 AU	
opposition	2569 Jun 17 11:21	27°♌04'37	-3°-11'-13		2574 Oct 20 04:40	0°♌		
greatest brilliancy	2569 Jun 18 20:13	26°♌37'15	-2.3m					
min. Earth dist.	2569 Jun 25 20:35	24°♌18'11	0.46465 AU	conjunction	2574 Oct 29 03:48	5°♌58'10	0°21'11	
direct	2569 Jul 24 06:52	19°♌05'16		minimum elong	2574 Oct 29 04:31	5°♌59'22	0°21'11	
	2569 Sep 05 02:48	0°♌			2574 Dec 03 11:04	0°♌		

desc. node	2574 Dec 05 16:57	1°♄33'27		min. Earth dist.	2580 Mar 11 23:29	19°♃59'22	0.67611 AU
morning rise	2574 Dec 14 23:49	8°♄02'17		direct	2580 Apr 20 16:22	10°♃37'53	
	2575 Jan 14 20:11	0°♄			2580 Jun 26 12:27	0°♄	
	2575 Feb 24 14:54	0°♃		desc. node	2580 Jul 27 12:59	16°♃18'52	
	2575 Apr 05 06:44	0°♂			2580 Aug 19 16:26	0°♃	
	2575 May 14 12:54	0°♁			2580 Oct 04 15:01	0°♂	
	2575 Jun 23 10:52	0°♁			2580 Nov 15 12:26	0°♄	
	2575 Aug 04 17:45	0°♂			2580 Dec 24 23:29	0°♃	
	2575 Sep 22 22:18	0°♁			2581 Feb 01 04:29	0°♂	
	2575 Oct 07 07:39	7°♁01'38		evening set	2581 Feb 11 21:31	8°♂28'24	
retrograde	2575 Nov 21 13:11	18°♁35'19			2581 Mar 11 04:31	0°♁	
min. Earth dist.	2575 Dec 24 14:33	11°♁14'01	0.57823 AU		2581 Apr 18 22:10	0°♁	
opposition	2575 Dec 30 18:19	8°♁49'01	3°30'10				
greatest brilliancy	2575 Dec 29 15:27	9°♁15'27	-1.7m	conjunction	2581 Apr 21 03:04	1°♂40'38	0°-24'-41
direct	2576 Feb 05 11:34	0°♁24'53		minimum elong	2581 Apr 21 05:12	1°♂44'40	0°24'41
	2576 May 03 05:04	0°♁		asc. node	2581 May 29 04:47	0°♂01'36	
	2576 Jun 26 10:24	0°♃			2581 May 29 03:54	0°♂	
	2576 Aug 15 01:57	0°♃		max. Earth dist.	2581 Jun 09 17:01	8°♂21'02	2.45171 AU
	2576 Sep 30 17:55	0°♃		morning rise	2581 Jun 24 10:29	18°♂49'34	
	2576 Oct 21 15:21	14°♃01'19			2581 Jul 10 10:50	0°♁	
	2576 Oct 22 16:02	14°♃43'19			2581 Aug 24 03:08	0°♁	
	2576 Nov 06 03:22	24°♃40'29	2.51668 AU		2581 Oct 10 13:44	0°♃	
	2576 Nov 13 18:38	0°♂			2581 Dec 01 06:55	0°♃	
				2582 Feb 07 17:39	0°♃		
conjunction	2576 Dec 10 15:58	19°♄10'03	0°-28'-27	retrograde	2582 Mar 07 14:44	4°♃08'36	
minimum elong	2576 Dec 10 14:42	19°♄07'44	0°28'28		2582 Apr 02 06:47	30°♃	
morning rise	2576 Dec 25 11:39	0°♄		opposition	2582 Apr 15 00:51	25°♃27'00	2°17'23
	2577 Feb 03 22:00	0°♃24'35		greatest brilliancy	2582 Apr 15 15:56	25°♃12'29	-1.4m
	2577 Feb 03 09:10	0°♃		min. Earth dist.	2582 Apr 20 07:44	23°♃24'52	0.62657 AU
	2577 Mar 14 03:10	0°♂		direct	2582 May 26 07:22	15°♃28'44	
	2577 Apr 21 12:38	0°♁		desc. node	2582 Jun 14 12:23	17°♃39'42	
	2577 May 30 11:10	0°♁			2582 Jul 19 13:42	0°♃	
	2577 Jul 09 22:58	0°♂			2582 Sep 10 23:33	0°♂	
	2577 Aug 22 07:49	0°♁			2582 Oct 24 19:16	0°♄	
	2577 Aug 24 06:47	1°♁17'14			2582 Dec 03 22:54	0°♃	
2577 Oct 10 11:48	0°♁			2583 Jan 11 12:29	0°♂		
retrograde	2577 Dec 27 04:53	26°♁33'27			2583 Feb 18 20:26	0°♁	
min. Earth dist.	2578 Feb 03 00:09	17°♁35'36	0.65948 AU		2583 Mar 29 23:43	0°♂	
opposition	2578 Feb 05 09:32	16°♁38'03	4°33'50	asc. node	2583 Apr 16 03:18	12°♂48'30	
greatest brilliancy	2578 Feb 04 20:20	16°♁51'18	-1.3m	evening set	2583 Apr 22 07:09	17°♂21'06	
direct	2578 Mar 17 00:25	7°♁12'14			2583 May 09 16:20	0°♂	
	2578 May 31 00:03	0°♃					
	2578 Jul 25 03:31	0°♃		conjunction	2583 Jun 19 19:45	28°♂57'06	0°38'13
	2578 Sep 09 14:39	28°♃49'12		minimum elong	2583 Jun 19 18:00	28°♂54'05	0°38'12
	2578 Sep 11 10:14	0°♃			2583 Jun 21 08:23	0°♁	
	2578 Oct 25 19:21	0°♂		max. Earth dist.	2583 Jul 18 12:10	18°♁22'38	2.57641 AU
	2578 Dec 06 07:32	0°♄			2583 Aug 05 01:36	0°♁	
	2578 Dec 09 02:58	2°♄05'33		morning rise	2583 Aug 11 06:05	4°♁03'09	
	2579 Jan 03 14:05	21°♄21'59	2.38928 AU		2583 Sep 20 15:28	0°♃	
2579 Jan 14 18:56	0°♃			2583 Nov 08 00:08	0°♃		
				2583 Dec 28 23:35	0°♃		
conjunction	2579 Feb 07 10:08	18°♃26'44	-1°-4'-37		2584 Feb 25 18:54	0°♂	
minimum elong	2579 Feb 07 09:41	18°♃25'52	1°04'38	retrograde	2584 Apr 21 20:38	14°♄19'42	
morning rise	2579 Feb 22 02:19	0°♂		desc. node	2584 May 01 11:42	13°♄44'33	
	2579 Apr 01 03:16	0°♁		opposition	2584 May 27 05:05	7°♄00'53	-1°-12'-47
	2579 Apr 18 07:01	13°♁24'33		greatest brilliancy	2584 May 27 18:37	6°♄48'50	-2.0m
	2579 May 09 19:20	0°♂		min. Earth dist.	2584 Jun 04 09:47	4°♄06'13	0.51743 AU
	2579 Jun 18 22:32	0°♂			2584 Jun 18 07:58	30°♃	
	2579 Jul 12 05:10	16°♂42'49		direct	2584 Jul 05 02:46	28°♃03'12	
	2579 Jul 31 07:08	0°♁			2584 Jul 22 10:39	0°♂	
	2579 Sep 14 18:38	0°♁			2584 Sep 25 04:54	0°♄	
	2579 Nov 04 12:41	0°♃			2584 Nov 08 03:22	0°♃	
2580 Jan 26 22:22	0°♃			2584 Dec 18 10:06	0°♂		
retrograde	2580 Jan 30 14:01	0°♃04'54			2585 Jan 26 22:19	0°♁	
	2580 Feb 03 04:27	30°♃		asc. node	2585 Mar 03 01:23	26°♁17'15	
opposition	2580 Mar 10 11:37	20°♃34'57	4°04'22		2585 Mar 08 02:20	0°♂	
greatest brilliancy	2580 Mar 10 17:38	20°♃28'58	-1.2m		2585 Apr 18 17:57	0°♂	

	2585 Jun 01 05:42	0°☾			2590 Apr 13 22:57	0°♁		
evening set	2585 Jun 13 01:07	7°☾55'58			2590 May 23 20:51	0°♃		
	2585 Jul 16 11:44	0°♁			2590 Jul 03 17:15	0°♂		
conjunction	2585 Aug 02 03:58	10°♁49'19	1°06'31	asc. node	2590 Aug 17 05:40	0°♁		
minimum elong	2585 Aug 02 03:20	10°♁48'18	1°06'31		2590 Oct 23 23:26	0°☾06'46		
max. Earth dist.	2585 Aug 13 06:39	17°♁58'46	2.65373 AU	retrograde	2590 Oct 23 07:30	0°☾		
	2585 Sep 01 01:20	0°♃			2590 Nov 05 08:06	1°☾09'49		
morning rise	2585 Sep 17 13:45	10°♃30'38		min. Earth dist.	2590 Nov 17 20:59	30°♁♂	0.53143 AU	
	2585 Oct 18 08:56	0°♁		opposition	2590 Dec 06 05:34	24°♁35'59	2°25'56	
	2585 Dec 05 02:23	0°♁		greatest brilliancy	2590 Dec 13 15:17	21°♁46'52	-1.9m	
	2586 Jan 22 10:40	0°♁		direct	2590 Dec 12 15:11	22°♁09'54		
	2586 Mar 13 16:24	0°♁			2591 Jan 17 20:17	13°♁59'02		
desc. node	2586 Mar 19 10:29	3°♁16'58			2591 Mar 17 16:36	0°☾		
	2586 May 10 21:17	0°♁			2591 May 14 22:48	0°♁		
retrograde	2586 Jun 28 08:32	11°♁51'10			2591 Jul 05 12:25	0°♃		
opposition	2586 Jul 29 00:30	6°♁37'52	-6°-17'-49	evening set	2591 Aug 23 06:52	0°♁		
greatest brilliancy	2586 Jul 30 12:49	6°♁12'15	-2.7m		2591 Oct 06 15:40	28°♁38'38		
min. Earth dist.	2586 Aug 03 08:10	5°♁08'05	0.39290 AU	max. Earth dist.	2591 Oct 08 16:48	0°♁		
direct	2586 Aug 30 06:36	0°♁45'26		desc. node	2591 Oct 25 05:17	11°♁03'39	2.56186 AU	
	2586 Nov 14 11:20	0°♁			2591 Nov 09 07:13	21°♁20'47		
	2586 Dec 30 08:58	0°♃			2591 Nov 21 18:50	0°♁		
asc. node	2587 Jan 19 01:15	13°♃28'33		conjunction	2591 Nov 23 12:19	1°♁12'29	0°-8'-22	
	2587 Feb 12 01:43	0°♂		minimum elong	2591 Nov 23 11:58	1°♁11'52	0°08'22	
	2587 Mar 28 03:14	0°♁		behind sun begin	2591 Nov 22 17:56	0°♁40'22		
	2587 May 12 08:08	0°☾		behind sun end	2591 Nov 24 06:00	1°♁43'24		
	2587 Jun 27 17:22	0°♁			2592 Jan 02 17:20	0°♁		
evening set	2587 Jul 24 14:54	17°♁09'33		morning rise	2592 Jan 13 11:32	7°♁55'15		
	2587 Aug 13 19:54	0°♃			2592 Feb 11 21:55	0°♁		
max. Earth dist.	2587 Sep 05 12:06	14°♃24'30	2.67657 AU		2592 Mar 21 22:55	0°♁		
					2592 Apr 29 14:17	0°♃		
conjunction	2587 Sep 08 19:39	16°♃30'58	1°03'48		2592 Jun 07 18:17	0°♂		
minimum elong	2587 Sep 08 20:24	16°♃32'11	1°03'48		2592 Jul 18 15:00	0°♁		
	2587 Sep 29 23:05	0°♁			2592 Sep 01 00:42	0°☾		
morning rise	2587 Oct 23 02:29	14°♁50'54		asc. node	2592 Sep 09 22:37	5°☾33'33		
	2587 Nov 15 12:19	0°♁			2592 Oct 25 01:11	0°♁		
	2587 Dec 31 03:40	0°♁		retrograde	2592 Dec 13 12:38	12°♁51'10		
desc. node	2588 Feb 04 09:29	23°♁35'51		min. Earth dist.	2593 Jan 18 14:43	4°♁27'04	0.63516 AU	
	2588 Feb 13 20:47	0°♁		opposition	2593 Jan 22 12:30	2°♁53'12	4°22'51	
	2588 Mar 28 20:40	0°♁		greatest brilliancy	2593 Jan 21 16:06	3°♁13'37	-1.4m	
	2588 May 11 18:02	0°♁			2593 Jan 29 22:35	30°♁♂		
	2588 Jun 26 15:46	0°♃		direct	2593 Mar 02 03:48	23°☾47'07		
	2588 Sep 01 16:31	0°♂			2593 Apr 05 23:06	0°♁		
retrograde	2588 Sep 13 09:15	0°♂58'30			2593 Jun 11 05:36	0°♃		
	2588 Sep 25 02:32	30°♁♂			2593 Aug 02 08:58	0°♁		
min. Earth dist.	2588 Oct 09 23:25	26°♃24'06	0.40284 AU		2593 Sep 18 20:09	0°♁		
opposition	2588 Oct 16 18:32	24°♃18'55	-3°-10'-28	desc. node	2593 Sep 26 06:17	4°♁54'07		
greatest brilliancy	2588 Oct 15 18:53	24°♃37'08	-2.7m		2593 Nov 02 00:23	0°♁		
direct	2588 Nov 16 06:04	18°♃43'35		evening set	2593 Nov 18 14:20	11°♁46'17		
asc. node	2588 Dec 06 01:13	21°♃09'16		max. Earth dist.	2593 Dec 04 04:06	23°♁04'16	2.43779 AU	
	2589 Jan 01 02:28	0°♂			2593 Dec 13 13:38	0°♁		
	2589 Feb 27 16:53	0°♁						
	2589 Apr 18 22:52	0°☾		conjunction	2594 Jan 13 00:38	22°♁58'03	0°-56'-11	
	2589 Jun 06 21:33	0°♁		minimum elong	2594 Jan 12 22:42	22°♁54'19	0°56'11	
	2589 Jul 25 07:00	0°♃			2594 Jan 22 04:14	0°♁		
evening set	2589 Aug 29 20:20	22°♃22'01			2594 Mar 01 15:02	0°♁		
	2589 Sep 10 19:59	0°♁		morning rise	2594 Mar 18 14:39	13°♁22'16		
max. Earth dist.	2589 Sep 28 02:13	11°♁05'30	2.64518 AU		2594 Apr 08 18:27	0°♃		
					2594 May 17 11:43	0°♂		
conjunction	2589 Oct 14 06:50	21°♁37'18	0°36'58		2594 Jun 26 16:05	0°♁		
minimum elong	2589 Oct 14 07:52	21°♁39'00	0°36'57	asc. node	2594 Jul 28 22:15	22°♁55'51		
	2589 Oct 27 00:37	0°♁			2594 Aug 08 05:18	0°☾		
morning rise	2589 Nov 28 15:16	21°♁51'33			2594 Sep 23 11:23	0°♁		
	2589 Dec 10 13:05	0°♁			2594 Nov 16 18:07	0°♃		
desc. node	2589 Dec 22 08:18	8°♁09'08		retrograde	2595 Jan 17 04:11	17°♃24'42		
	2590 Jan 22 08:48	0°♁		opposition	2595 Feb 26 07:39	7°♃41'57	4°24'49	
	2590 Mar 04 16:41	0°♁		greatest brilliancy	2595 Feb 26 06:31	7°♃43'06	-1.2m	

min. Earth dist.	2595 Feb 26 06:49	7° Υ 42'47	0.67760 AU	conjunction	2600 Jul 18 01:55	25° Θ 49'37	0°59'41
	2595 Mar 20 23:48	30° R Ω		minimum elong	2600 Jul 18 00:38	25° Θ 47'31	0°59'41
direct	2595 Apr 08 01:27	27° Ω 53'59			2600 Jul 24 10:29	0° Ω	
	2595 Apr 27 11:55	0° Υ		max. Earth dist.	2600 Aug 04 12:09	7° Ω 13'25	2.62961 AU
	2595 Jul 09 12:35	0° $\underline{\Omega}$		morning rise	2600 Sep 04 07:03	27° Ω 02'58	
desc. node	2595 Aug 14 05:25	20° $\underline{\Omega}$ 35'56			2600 Sep 08 22:05	0° Υ	
	2595 Aug 29 08:35	0° \mathbb{M}			2600 Oct 26 11:58	0° $\underline{\Omega}$	
	2595 Oct 13 11:26	0° \mathcal{X}			2600 Dec 14 02:10	0° \mathbb{M}	
	2595 Nov 24 03:25	0° $\overline{\mathcal{Z}}$					
	2596 Jan 02 13:25	0° \approx					
evening set	2596 Jan 16 02:47	10° \approx 34'35					
	2596 Feb 09 18:20	0° \mathcal{X}					
	2596 Mar 18 17:42	0° Υ					
conjunction	2596 Mar 23 13:16	3° Υ 46'48	0°-49'-40				
minimum elong	2596 Mar 23 16:34	3° Υ 53'16	0°49'39				
	2596 Apr 26 09:34	0° \mathcal{X}					
max. Earth dist.	2596 May 12 19:37	12° \mathcal{X} 26'00	2.39831 AU				
morning rise	2596 May 31 19:25	26° \mathcal{X} 32'12					
	2596 Jun 05 12:59	0° \mathbb{I}					
asc. node	2596 Jun 14 20:04	6° \mathbb{I} 44'46					
	2596 Jul 17 18:34	0° Θ					
	2596 Aug 31 14:21	0° Ω					
	2596 Oct 18 19:16	0° Υ					
	2596 Dec 12 17:24	0° $\underline{\Omega}$					
retrograde	2597 Feb 20 13:23	20° $\underline{\Omega}$ 42'54					
opposition	2597 Mar 31 17:08	11° $\underline{\Omega}$ 39'13	3°08'42				
greatest brilliancy	2597 Apr 01 06:59	11° $\underline{\Omega}$ 25'42	-1.3m				
min. Earth dist.	2597 Apr 04 12:45	10° $\underline{\Omega}$ 09'41	0.65395 AU				
direct	2597 May 12 04:05	1° $\underline{\Omega}$ 36'46					
desc. node	2597 Jul 01 04:03	13° $\underline{\Omega}$ 50'57					
	2597 Aug 02 20:19	0° \mathbb{M}					
	2597 Sep 20 16:23	0° \mathcal{X}					
	2597 Nov 02 10:34	0° $\overline{\mathcal{Z}}$					
	2597 Dec 12 04:46	0° \approx					
	2598 Jan 19 13:07	0° \mathcal{X}					
	2598 Feb 26 16:20	0° Υ					
evening set	2598 Mar 27 21:23	22° Υ 36'45					
	2598 Apr 06 14:08	0° \mathcal{X}					
asc. node	2598 May 02 19:29	19° \mathcal{X} 36'20					
	2598 May 17 00:53	0° \mathbb{I}					
conjunction	2598 May 29 23:29	9° \mathbb{I} 18'27	0°17'16				
minimum elong	2598 May 29 22:21	9° \mathbb{I} 16'26	0°17'15				
	2598 Jun 28 11:42	0° Θ					
max. Earth dist.	2598 Jul 06 01:36	5° Θ 12'01	2.53222 AU				
morning rise	2598 Jul 25 08:15	18° Θ 13'52					
	2598 Aug 12 02:30	0° Ω					
	2598 Sep 27 20:40	0° Υ					
	2598 Nov 16 01:24	0° $\underline{\Omega}$					
	2599 Jan 08 21:15	0° \mathbb{M}					
retrograde	2599 Apr 03 04:00	27° \mathbb{M} 38'47					
opposition	2599 May 09 22:41	19° \mathbb{M} 41'56	0°23'55				
greatest brilliancy	2599 May 10 03:02	19° \mathbb{M} 37'54	-1.7m				
min. Earth dist.	2599 May 17 05:14	17° \mathbb{M} 00'06	0.56623 AU				
desc. node	2599 May 19 02:39	16° \mathbb{M} 19'12					
direct	2599 Jun 19 04:17	10° \mathbb{M} 08'56					
	2599 Aug 21 05:18	0° \mathcal{X}					
	2599 Oct 08 19:19	0° $\overline{\mathcal{Z}}$					
	2599 Nov 19 10:31	0° \approx					
	2599 Dec 28 17:51	0° \mathcal{X}					
	2600 Feb 05 14:44	0° Υ					
	2600 Mar 17 05:43	0° \mathcal{X}					
asc. node	2600 Mar 20 19:21	2° \mathcal{X} 39'05					
	2600 Apr 27 09:37	0° \mathbb{I}					
evening set	2600 May 26 06:37	20° \mathbb{I} 15'38					
	2600 Jun 09 11:23	0° Θ					